HCD-ZX80D/ZX100D

SERVICE MANUAL

E Model

Self Diagnosis Supported model

Ver. 1.0 2006.05

Photo: HCD-ZX80D

- HCD-ZX80D is the amplifier, disc player, tape deck and tuner section in FST-ZX80D/LBT-ZX80D.
- HCD-ZX100D is the amplifier, disc player, tape deck and tuner section in FST-ZX100D/LBT-ZX100D.

This system incorporates Dolby* Digital, Dolby Pro Logic (II) adaptive matrix surround decoder, and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories.
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**Manufactured under license from Digital Theater Systems, Inc.
"DTS" and " DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

DVD Section	Model Name Using Similar Mechanism	NEW
	DVD Mechanism Type	CDM74HF-DVBU101
	Optical Pick-up Block Name	KHM-310CAB or KHM-313CAB
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CWN42RR603

SPECIFICATIONS

Amplifier section

HCD-ZX100D

The following are measured at AC 120, 127, 220, 240V 50/60 Hz
DIN power output (rated): 130 W + 130 W (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
Front speaker: 170 W + 170 W (6 ohms at 1 kHz, 10% THD)
Center speaker: 80 W (16 ohms at 1 kHz, 10% THD)
Surround speaker: 170 W + 170 W (6 ohms at 1 kHz, 10% THD)
Subwoofer: 180 W (8 ohms at 100 Hz, 10% THD)

HCD-ZX80D

The following are measured at AC 120, 127, 220, 240V 50/60 Hz
DIN power output (rated): 155 W + 155 W (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
Front speaker: 200 W + 200 W (6 ohms at 1 kHz, 10% THD)
Center speaker: 80 W (16 ohms at 1 kHz, 10% THD)
Surround speaker: 200 W + 200 W (6 ohms at 1 kHz, 10% THD)

Inputs
VIDEO INPUT (phono jacks): VIDEO: 1 Vp-p, 75 ohms AUDIO L/R: Voltage 250 mV, impedance 47 kilohms
TV/SAT AUDIO IN L/R (phono jacks): Voltage 250 mV/450 mV, impedance 47 kilohms
MIC 1 or 2 (phone jack): Sensitivity 1 mV, impedance 10 kilohms

Outputs
AUDIO OUT (phono jacks): Voltage 250 mV, impedance 1 kilohm
VIDEO OUT (phono jack): Max. output level 1 Vp-p, unbalanced, Sync. negative load impedance 75 ohms
COMPONENT VIDEO OUT: Y: 1 Vp-p, 75 ohms PB/CB: 0.7 Vp-p, 75 ohms PR/CR: 0.7 Vp-p, 75 ohms
S VIDEO OUT (4-pin/mini-DIN jack): Y: 1 Vp-p, unbalanced, Sync. negative C: 0.286 Vp-p, load impedance 75 ohms
PHONES (stereo mini jack): accepts headphones of 8 ohms or more
FRONT SPEAKER: Use only the supplied speakers
SURR SPEAKER: Use only the supplied speakers
CENTER SPEAKER: Use only the supplied speaker
SUBWOOFER OUT:
HCD-ZX100D: Use only the supplied subwoofer
HCD-ZX80D (phono jacks): Voltage 250 mV, impedance 1 kilohm

Disc player section

System: Compact disc and digital audio and video system
Laser: Semiconductor laser (DVD: λ = 650 nm, CD: λ = 790 nm) Emission duration: continuous

– Continued on next page –

DVD DECK RECEIVER

9-887-251-01
2006E05-1
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Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

SONY

Frequency response	DVD (PCM 48 kHz): 2 Hz – 22 kHz (±1dB) CD: 2 Hz – 20 kHz (±0.5 dB)
Video color system format	
Latin American models:	NTSC
Other models:	NTSC and PAL

Tape deck section

Recording system	4-track 2-channel stereo
Frequency response	50 – 13,000 Hz (±3 dB), using Sony TYPE I tape

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz (50 kHz step)
Antenna	FM lead antenna
Antenna terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
Latin American models:	530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,710 kHz (with the interval set at 9 kHz)
Russian models:	531– 1,602 kHz (with the interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
Mexican model:	127 V AC, 60 Hz
Other models:	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	
HCD-ZX100D	430 W
HCD-ZX80D	390 W
Dimensions (w/h/d) (Approx.)	281 × 379 × 404.5 mm
Mass (Approx.)	16.3 kg

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SELF DIAGNOSIS FUNCTION

Self-diagnosis Function

(When letters/numbers appear in the display)

When the self-diagnosis function is activated to prevent the system from malfunctioning, a 5-character service number (e.g. C 13 50) with a combination of a letter and 4 digits appears on the TV screen and the front panel display. In this case, check the following table.

First 3 characters of the service number	Cause and corrective action
C 13	This disc is dirty. • Clean the disc with a soft cloth.
C 31	The disc is not inserted correctly. • Restart the system, then re-insert the disc correctly.
E XX (XX is a number)	To prevent a malfunction, the system has performed the self-diagnosis function. • Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

When displaying the version number on the TV screen

When you turn on the system, the version number [VER.X.XX] (X is a number) may appear on the TV screen. Although this is not a malfunction and for Sony service use only, normal system operation will not be possible. Turn off the system, and then turn on the system again to operate.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

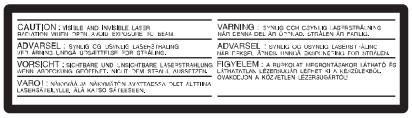
- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. This label is located on the rear exterior.

The following caution label is located inside the apparatus.



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SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

RELEASING THE DVD TRAY LOCK

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Releasing Procedure :

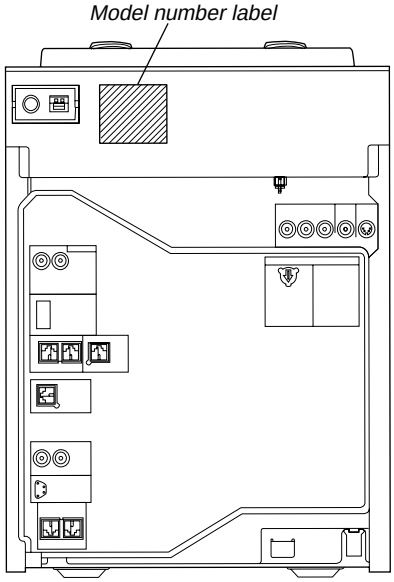
1. Press the I/⏻ button to turn the power on.
2. Press the DVD button to select "DVD".
3. While pressing the ■ button, press the ⏏ OPEN/CLOSE button until "UNLOCKED" displayed on the fluorescent indicator tube (around 5 seconds).

Note: When "LOCKED" is displayed, the disc tray lock is not released by turning power on/off with the I/⏻ button.

NOTES ON REPLACEMENT OF THE DMB15 BOARD

New part of EEPROM (IC103) on the DMB15 board cannot be used. Therefore, if the mounted DMB15 board is replaced, exchange new EEPROM with that used before the replacement.

MODEL IDENTIFICATION
– Back Panel –



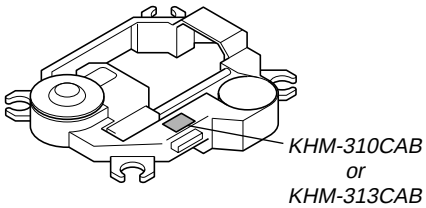
Label indication	Model
2-661-760-5□ E2	ZX80D: E2
2-661-760-6□ E2	ZX100D: E2
2-661-761-3□ MX	ZX100D: MX
2-661-761-4□ MX	ZX80D: MX
2-672-142-0□ E3	ZX100D: E3
2-672-142-1□ E3	ZX80D: E3
2-675-973-2□ E51	ZX80D: E51
2-675-973-3□ E51	ZX100D: E51
2-686-974-1□ SP2/6	ZX100D: SP, MY
2-686-106-0□ E13	ZX80D: E13

- Abbreviation
  E2 : 120V AC area in E model
  E3 : 240V AC area in E model
  E13 : Russian model and 220V – 230V AC area in E model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  MY : Malaysia model
  SP : Singapore model

HOW TO IDENTIFY OPTICAL PICK-UP BLOCK

There are two kinds of OPTICAL PICK-UP BLOCK in this set. When replacing the OPTICAL PICK-UP BLOCK, make sure which OPTICAL PICK-UP BLOCK it is following the "How to Identify" in the figure shown below.

Printed of KHM-310CAB or KHM-313CAB.



Playable discs

You can play back the following discs on this system. Other discs cannot be played back.

List of playable discs

Format of discs	Disc logo
DVD VIDEO	
DVD-RW/DVD-R	
DVD+RW/ DVD+R	
VIDEO CD	
AUDIO CD	
CD Graphics (CDG) (Latin American models only)	
CD-R/CD-RW	

"DVD+RW", "DVD-RW", "DVD+R", "DVD VIDEO", and the "CD" logos are trademarks.

Notes on discs

The system can play back the following disc:

- CD-ROMs/CD-Rs/CD-RWs recorded in the following formats:
  - VIDEO CD format
  - AUDIO CD format
  - CD Graphics (Latin American models only)
  - DATA CD format which contains MP3 audio tracks,[1] JPEG image files and DivX video files[2] of format conforming to ISO 9660[3] Level 1, Level 2 or Joliet in expansion format
- DVD-ROMs/DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs recorded in the following formats:
  - DVD VIDEO format
  - DATA DVD format which contains MP3 audio tracks,[1] JPEG image files and DivX video files[2] of format conforming to UDF (Universal Disk Format)
  - VR (Video Recording) format (DVD-Rs/DVD-RWs only)

The system cannot play back the following discs:

- CD-ROMs recorded in PHOTO CD format
- Data part of CD-Extras[4]
- Data part of Mixed CDs[5]
- Super Audio CDs
- DVD Audio discs
- DVD-RAMs
- A DVD VIDEO with a different region code.
- A disc that has a non-standard shape (e.g., heart, square, star).
- A disc that has the adhesive cellophane tape or a sticker still left on it.

[1] MP3 audio tracks must be in MPEG 1 Audio Layer 3 format.

[2] DivX video files must be recorded in DivX format with the extension ".AVI" or ".DIVX".

[3] ISO 9660 Format
A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

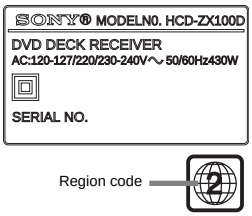
[4] CD-Extra: This format records audio (AUDIO CD data) on the tracks in session 1 and data on the tracks in session 2.

[5] Mixed CD: This format records data on the first track and audio (AUDIO CD data) on the second and subsequent tracks of a session.

Region code of DVD VIDEOs you can play back on this system

Your system has a region code printed on the back of the unit and will only play back DVD VIDEOs labeled with identical region code. DVD VIDEOs labeled ALL will also be played back on this system.
If you try to play back any other region code DVD VIDEO, the message "Playback prohibited by area limitations." will appear on the TV screen. Depending on the DVD VIDEO, no region code indication may be labeled even though playing the DVD VIDEO is prohibited by area restrictions.

Example:



Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to Compact Disc (CD) standard, playback on this product is not guaranteed.

Notes on CD-R/CD-RW/DVD-R/ DVD-RW/DVD+R/DVD+RW

- In some cases, CD-Rs/CD-RWs/DVD-Rs/ DVD-RWs/DVD+Rs/DVD+RWs cannot be played back on this system due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software. The disc will not be played back if it has not been correctly finalized. For more information, see the operation instructions for the recording device.
- Note that some playback functions may not work with some DVD+RWs/DVD+Rs, even if they have been correctly finalized. In this case, view the disc by normal playback.
- A disc created in Packet Write format cannot be played back.

Note on playback operations of DVD VIDEOs and VIDEO CDs

Some playback operations of DVD VIDEOs and VIDEO CDs may be intentionally set by software producers. Since this system play back DVD VIDEOs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVD VIDEOs or VIDEO CDs.

Note on PBC (Playback Control) (VIDEO CDs)

This system conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback depending on the disc type.

Disc type	You can
VIDEO CDs without PBC functions (Ver. 1.1 discs)	Enjoy video playback (moving pictures) as well as music.

Disc type	You can
VIDEO CDs with PBC functions (Ver. 2.0 discs)	Play back interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver. 1.1 discs. Moreover, you can play back high-resolution still pictures, if they are included on the disc.

Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Notes on Multi Session disc

- This system can play back Multi Session discs when an MP3 audio track is contained in the first session. Any subsequent MP3 audio tracks recorded in later sessions can also be played back.
- This system can play back Multi Session discs when a JPEG image file is contained in the first session. Any subsequent JPEG image files recorded in later sessions can also be played back.
- If the first session is recorded in AUDIO CD or VIDEO CD format, only the first session will be played back.
- The system will recognize a Multi Session disc as an AUDIO CD if there is a session recorded in AUDIO CD format on the disc. However, the system will only play back the disc if the first session is recorded in AUDIO CD format.
- With DATA CD or DATA DVD, the system will only play back DivX video files even if it contains MP3 audio tracks or JPEG image files.

SECTION 2
GENERAL

This section is extracted from instruction manual.

LOCATION OF CONTROLS

Unit

ALPHABETICAL ORDER

A – D

AMP MENU 30
BALANCE 46
BEAT JUMP 42
BEAT MAX 41
BEAT PAD 40
CD SYNC 10
CHORUS 29
Deck A 31
Deck B 18
DELAY 28
DIRECTION 19
DISC 1 ~ 3 52
Disc tray 8
DISPLAY 2
Display 6
DVD 37

E – L

ECHO LEVEL 22
ENTER 21
EQ BAND 20
EX-CHANGE/DISC SKIP 50
FADER 45
FLANGER 3
GROOVE 16
ILLUMINATION 1
IR Receptor 38

M – R

MASTER VOLUME 24
MIC 1/2 (jack) 25
MIC 1/2 LEVEL 23
OPERATION DIAL 51
PHONES (jack) 27
Power illuminator 5
PRESET +/– 14
PROGRESSIVE 7
RANDOM 43
REC PAUSE/START 9

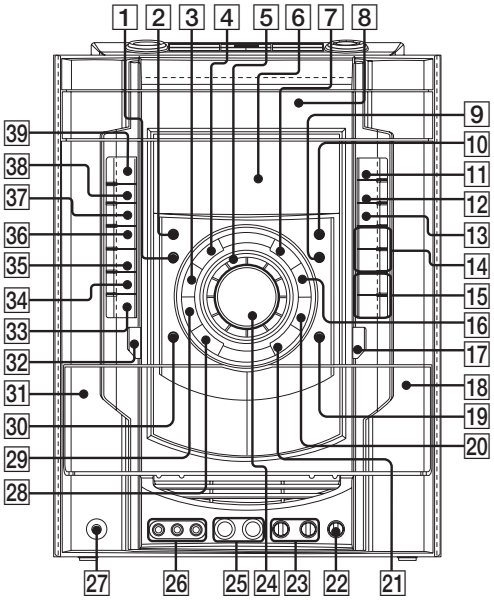
S – Z

SOUND FIELD 4
SPEAKERS 47
TAPE A/B 35
TUNER/BAND 36
TUNING +/– 15
TV/SAT 34
VIDEO INPUT (jacks) 26
VIDEO 33
X-ROUND JOG 48
X-ROUND OFF 47
WAVE 44

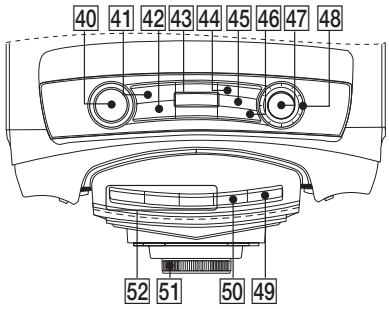
SYMBOLS

I/⏻ (on/standby) 39
⏏ OPEN/CLOSE 49
◄► (play) 11
⏮ ⏭ (go backward/forward) 14
◄◄ ►► (rewind/fast forward) 15
❚❚ (pause) 12
■ (stop) 13
A ⏏ (Eject A) 32
B ⏏ (Eject 17

Front Panel



Top Panel



Remote control

ALPHABETICAL ORDER

A – L

ADVANCE •➡ 24
ALBUM +/– 11
ANGLE 10
AUDIO 8
CLEAR 28
DISC SKIP 3
DISPLAY 33
ENTER 26
FM MODE 7
FUNCTION +/– 4
KARAOKE MODE 31
KARAOKE PON 30
KEY CONTROL ♯/♭ 32

M – S

MENU 12
Numeric Buttons[1] 29
PICTURE NAVI 6
PRESET + 16
PRESET – 23
REPEAT 7
REPLAY ⬅• 24
SCORE 5
SLEEP 35
SLOW ▮► 17
SLOW ◄▮ 22
SOUND FIELD 13
STEP ⏸► 24
SUBTITLE 9

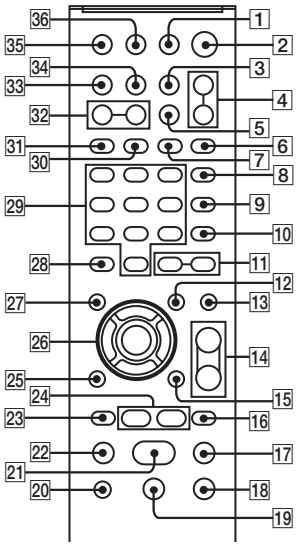
T – Z

THEATRE SYNC 1
TIMER MENU 36
TIME/TEXT 34
TOP MENU 27
TUNING + 17
TUNING – 22
TV 20
TV CH + 16
TV CH – 23
TV/VIDEO 35
TV VOL +/–[1] 14
TV I/⏻ (on/standby) 2
VOLUME +/–[1] 14

NUMBERS AND SYMBOLS

I/⏻ (on/standby) 2
■ (stop) 18
⏸ (pause) 19
▷[1] (play) 21
▶▶I (go forward) 16
I◀◀ (go backward) 23
▶▶ (fast forward) 17
◀◀ (rewind) 22
↑/↓/←/→ 26
10/0 29
-/-- 28
↩ RETURN 25
DISPLAY 15
◀⏸ STEP 24

[1] The numeric button 5, TV VOL +, VOLUME + and ▷ buttons have a tactile dot. Use the tactile dot as a reference when operating the system.



Setting the clock

1 Press I/⏻ to turn on the system.

2 Press TIMER MENU.

The hour indication flashes in the display.

3 Press ↑ or ↓ repeatedly to set the hour.

4 Press ENTER.

The minute indication flashes in the display.

5 Press ↑ or ↓ repeatedly to set the minute.

6 Press ENTER.

The clock starts functioning.

To adjust the clock

1 Press TIMER MENU.

"PLAY SET?" flashes in the display.

2 Press ↑ or ↓ repeatedly to select "CLOCK SET?", then press ENTER.

The hour indication flashes in the display.

3 Do the same procedures as step 3 to 6 above.

Notes

- The clock settings are canceled when you disconnect the power cord or if a power failure occurs.
- You cannot set the clock in Power Saving Mode.

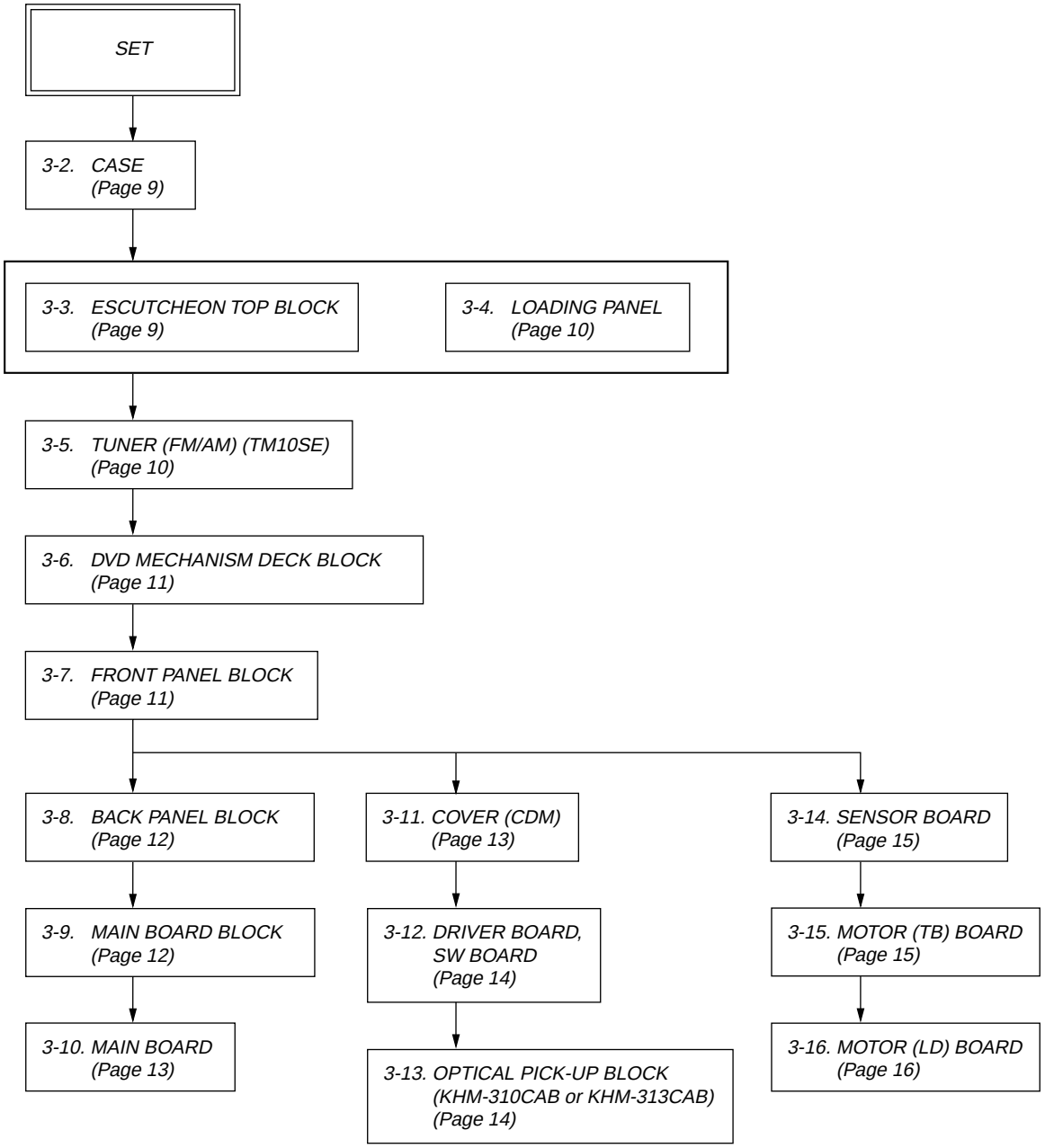
SECTION 3
DISASSEMBLY

- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

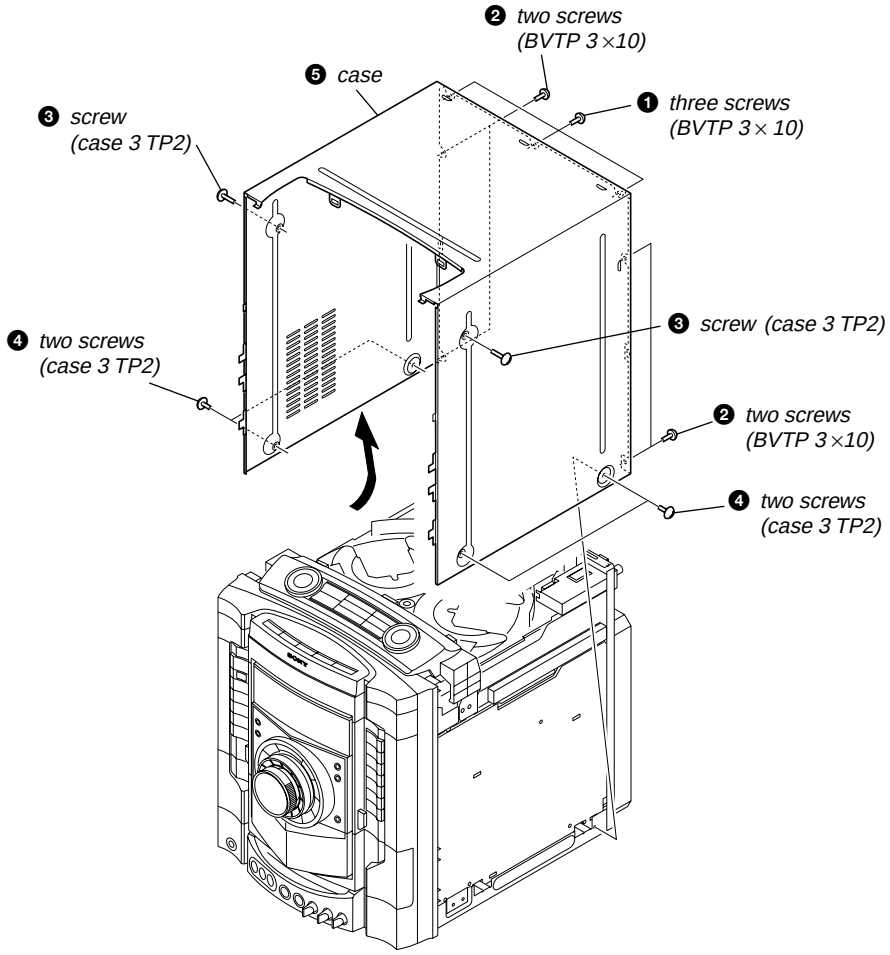
Note 1: *The process described in* ▣ *can be performed in any order.*

Note 2: *Without completing the process described in* ▣ *, the next process can not be performed.*

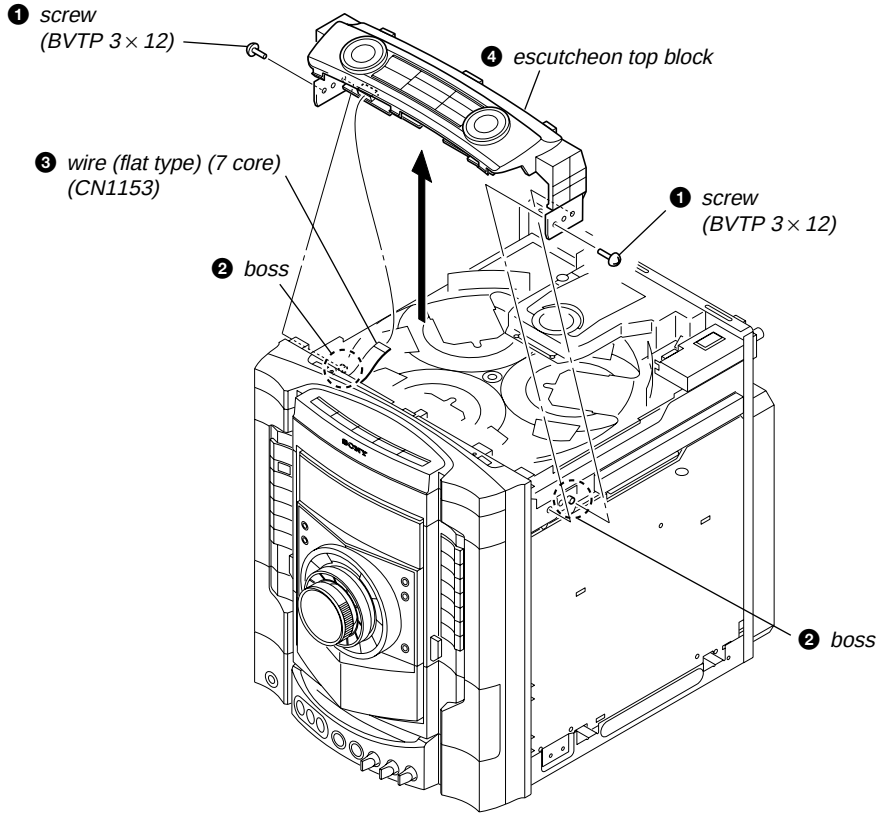

SET
3-2. CASE (Page 9)
3-3. ESCUTCHEON TOP BLOCK (Page 9)
3-4. LOADING PANEL (Page 10)
3-5. TUNER (FM/AM) (TM10SE) (Page 10)
3-6. DVD MECHANISM DECK BLOCK (Page 11)
3-7. FRONT PANEL BLOCK (Page 11)
3-8. BACK PANEL BLOCK (Page 12)
3-9. MAIN BOARD BLOCK (Page 12)
3-10. MAIN BOARD (Page 13)
3-11. COVER (CDM) (Page 13)
3-12. DRIVER BOARD, SW BOARD (Page 14)
3-13. OPTICAL PICK-UP BLOCK (KHM-310CAB or KHM-313CAB) (Page 14)
3-14. SENSOR BOARD (Page 15)
3-15. MOTOR (TB) BOARD (Page 15)
3-16. MOTOR (LD) BOARD (Page 16)

Note: Follow the disassembly procedure in the numerical order given.

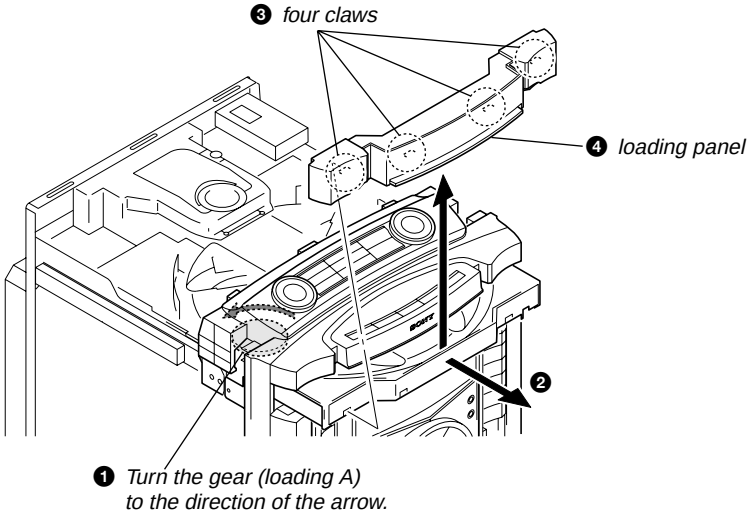
3-2. CASE



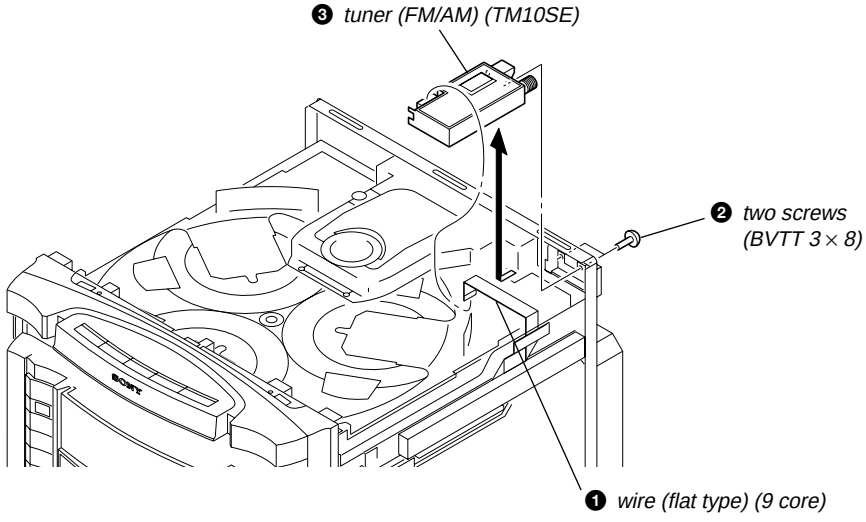
3-3. ESCUTCHEON TOP BLOCK



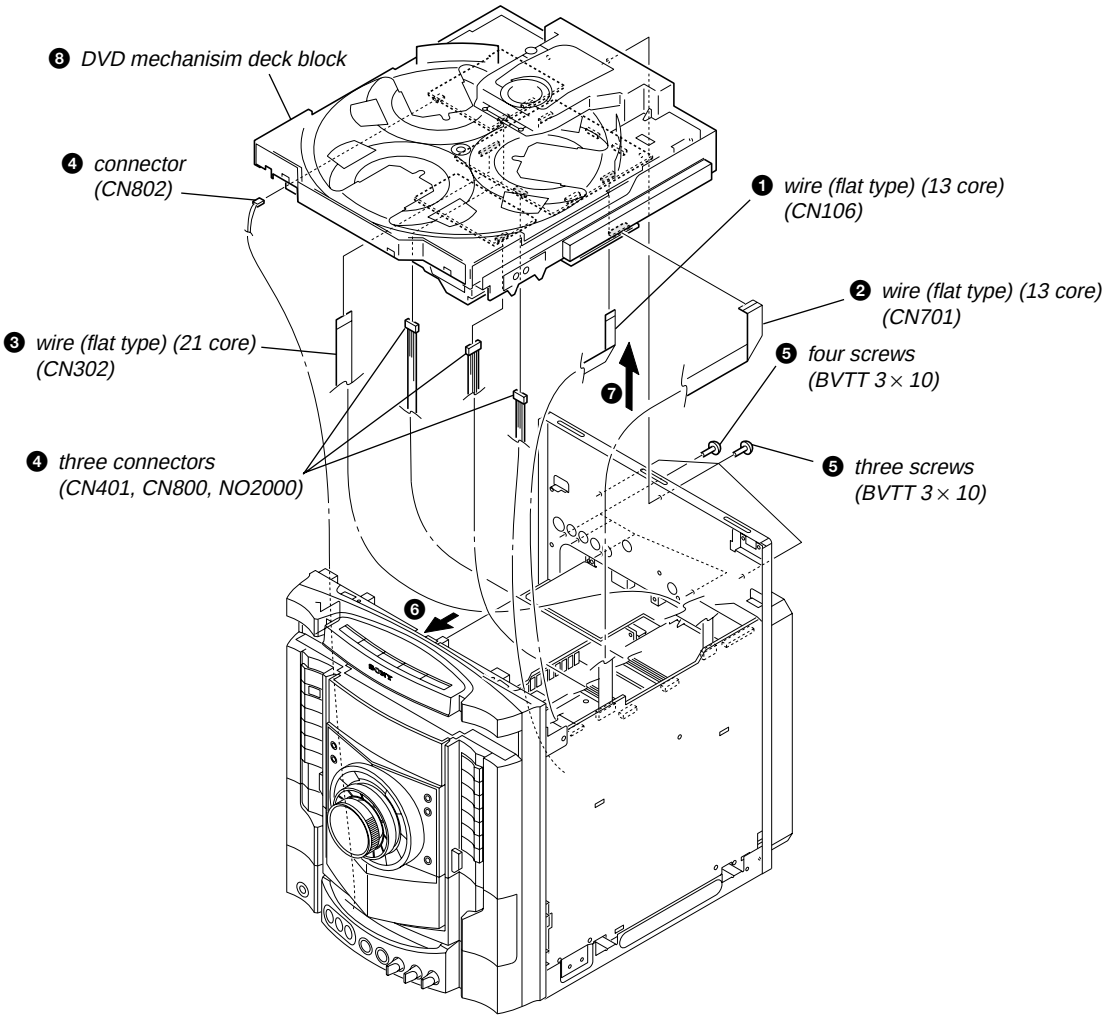
3-4. LOADING PANEL



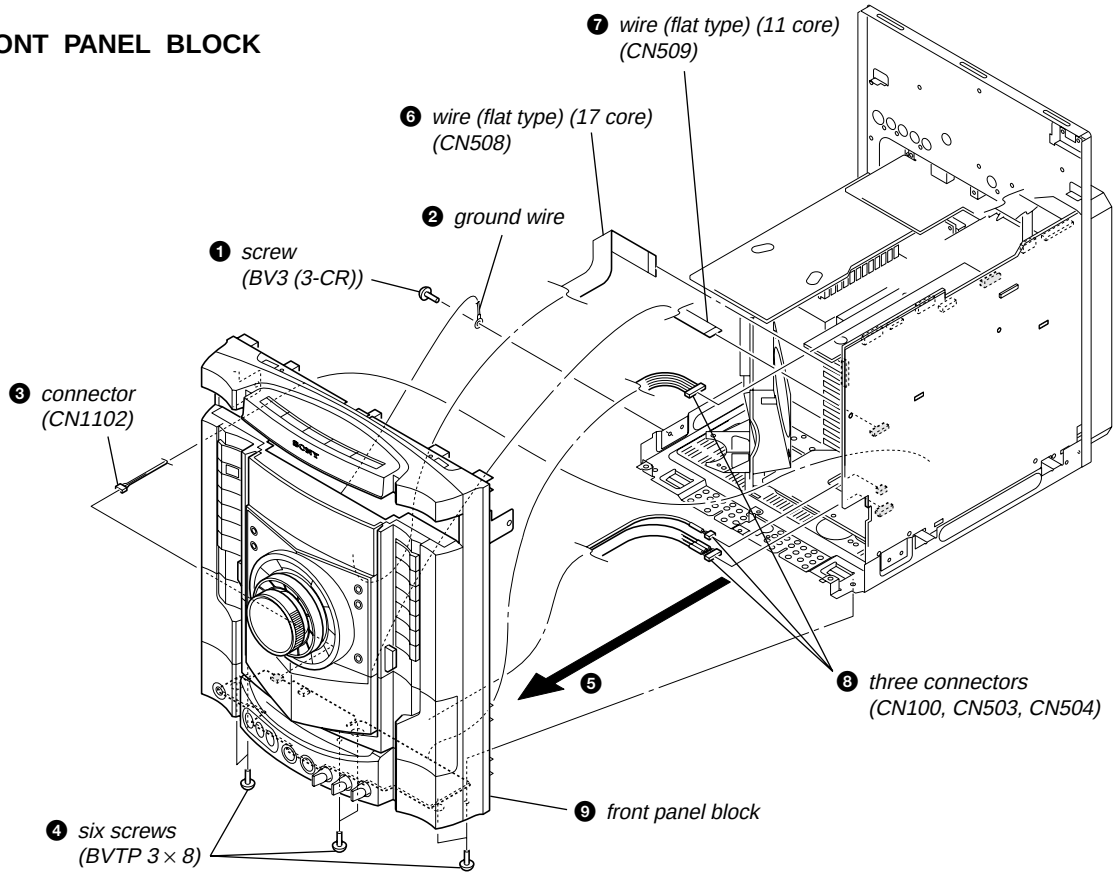
3-5. TUNER (FM/AM) (TM10SE)



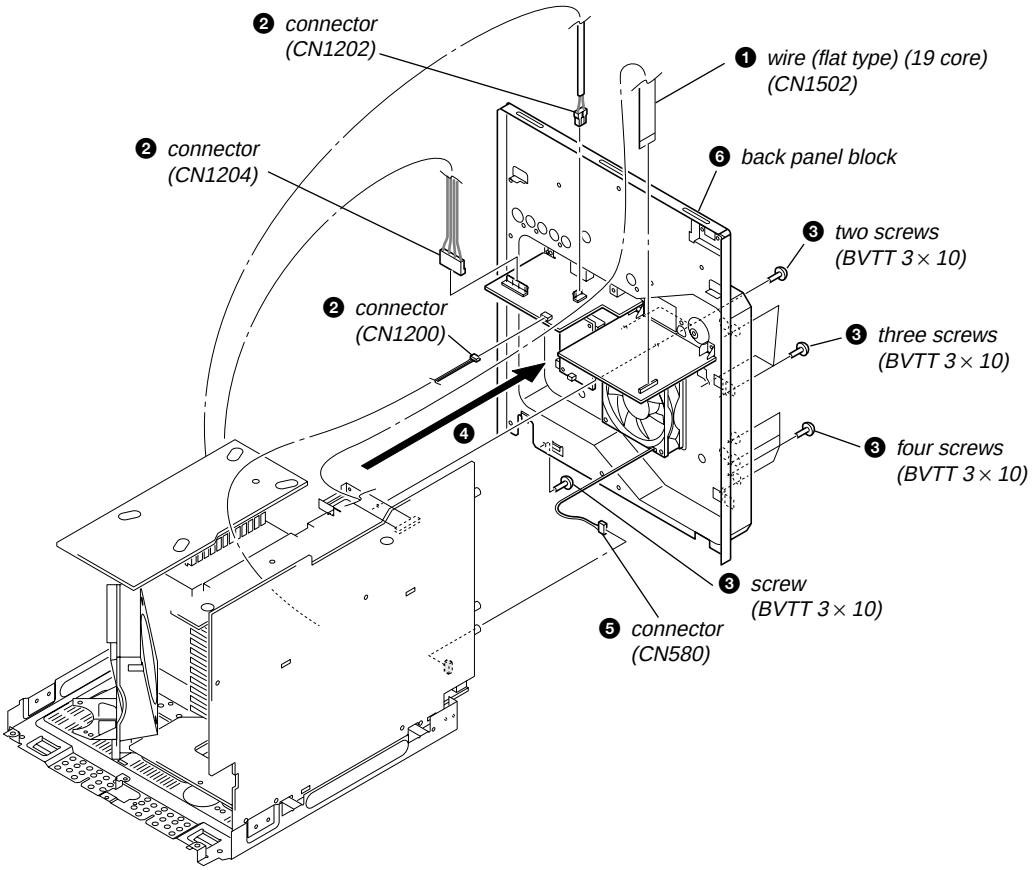
3-6. DVD MECHANISM DECK BLOCK


❽ DVD mechanisim deck block
❹ connector (CN802)
❶ wire (flat type) (13 core) (CN106)
❷ wire (flat type) (13 core) (CN701)
❸ wire (flat type) (21 core) (CN302)
❺ four screws (BVTT 3× 10)
❼
❹ three connectors (CN401, CN800, NO2000)
❺ three screws (BVTT 3× 10)
❻

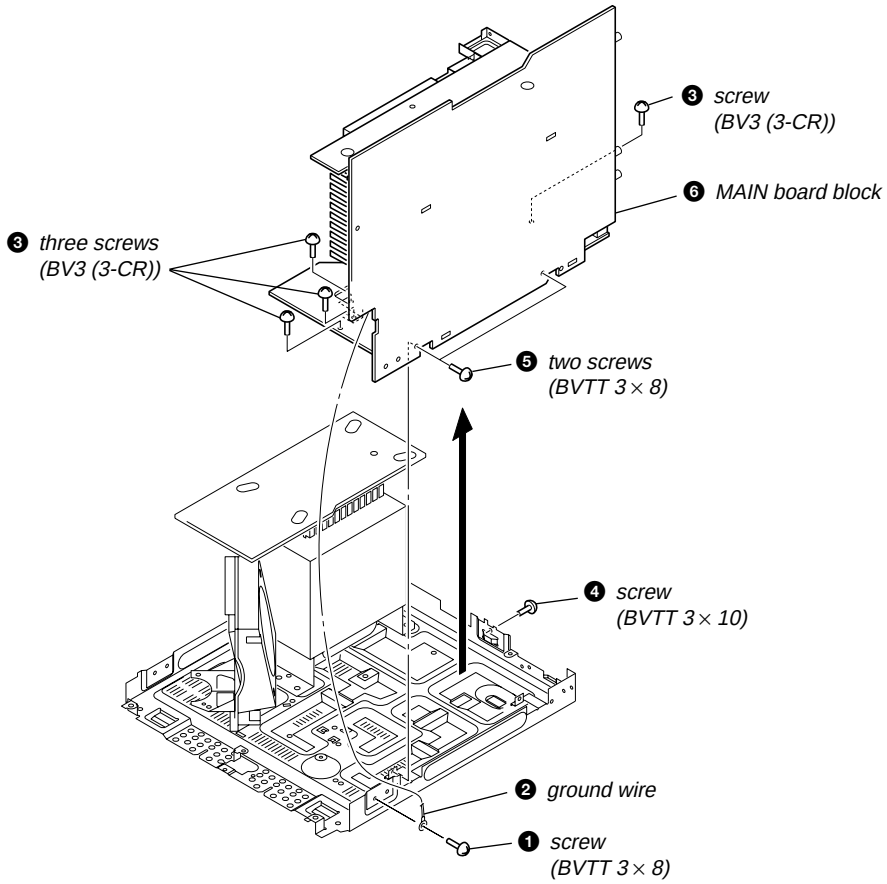
3-7. FRONT PANEL BLOCK


❼ wire (flat type) (11 core) (CN509)
❻ wire (flat type) (17 core) (CN508)
❷ ground wire
❶ screw (BV3 (3-CR))
❸ connector (CN1102)
❺
❽ three connectors (CN100, CN503, CN504)
❾ front panel block
❹ six screws (BVTP 3× 8)

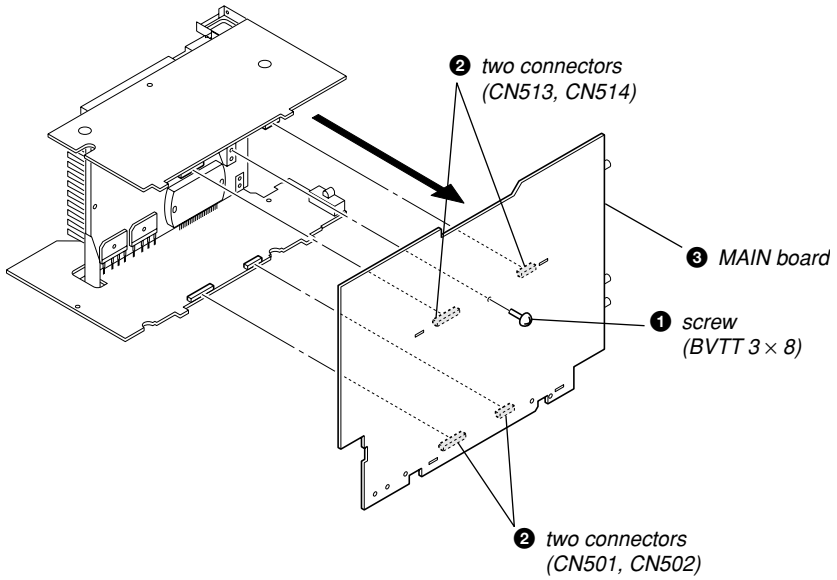
3-8. BACK PANEL BLOCK


❷ connector (CN1202)
❶ wire (flat type) (19 core) (CN1502)
❷ connector (CN1204)
❻ back panel block
❸ two screws (BVTT 3× 10)
❷ connector (CN1200)
❸ three screws (BVTT 3× 10)
❹
❸ four screws (BVTT 3× 10)
❸ screw (BVTT 3× 10)
❺ connector (CN580)

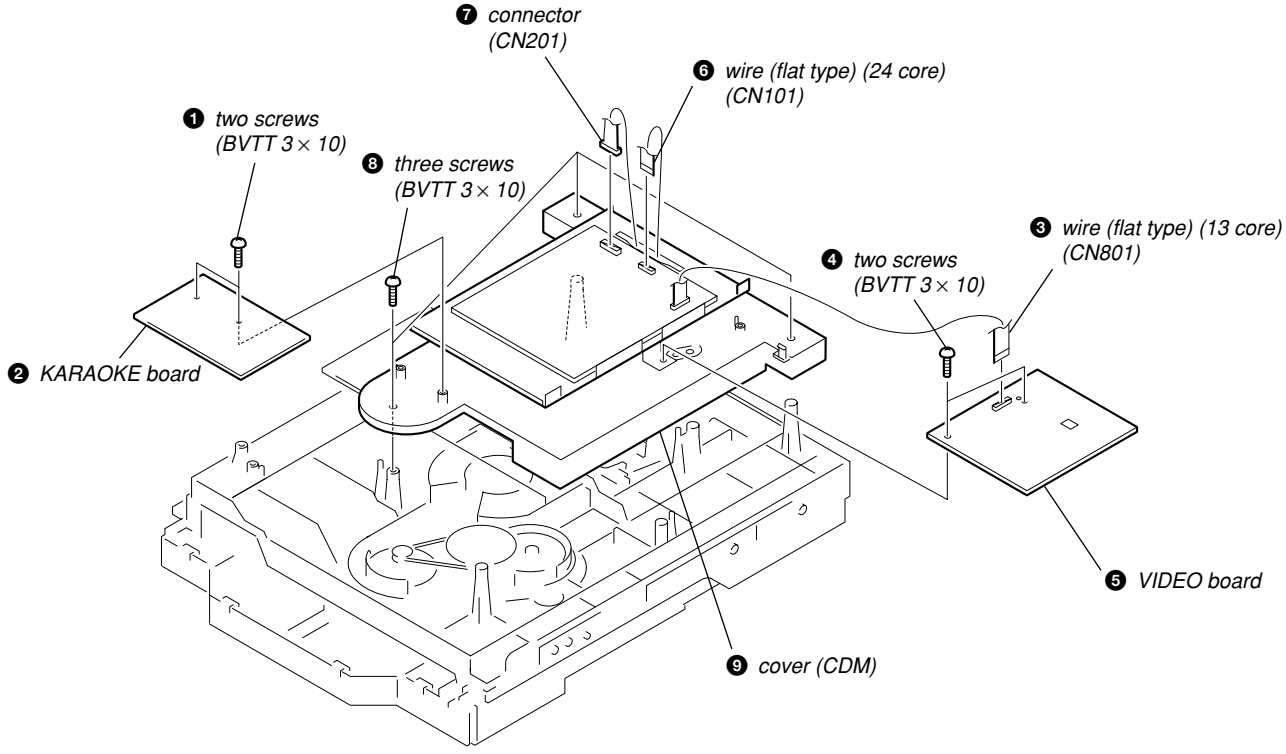
3-9. MAIN BOARD BLOCK



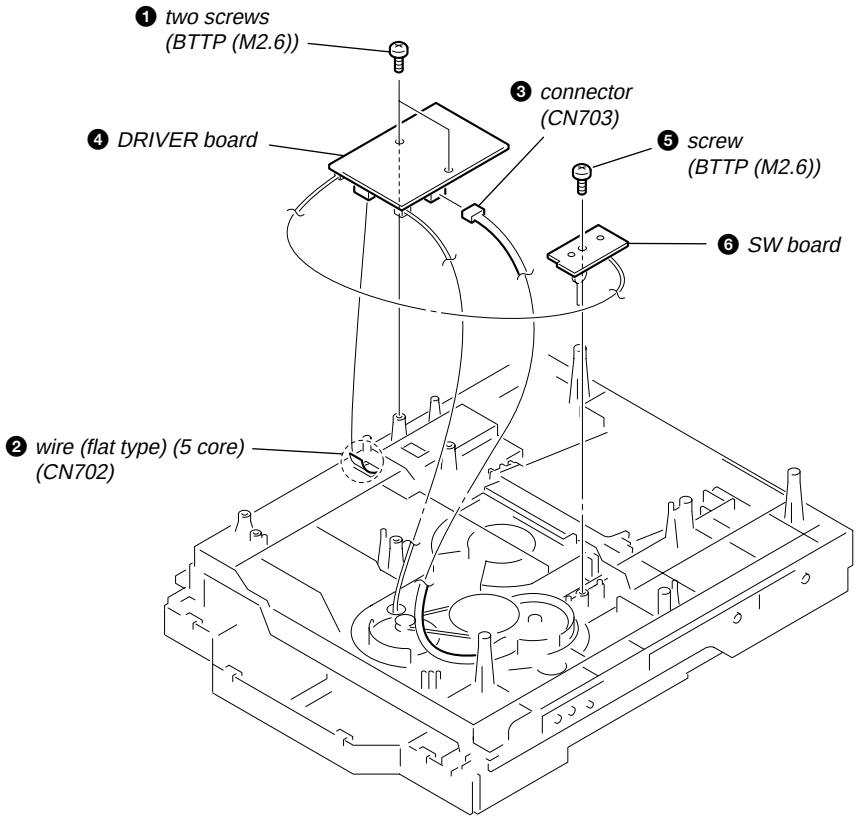
3-10. MAIN BOARD



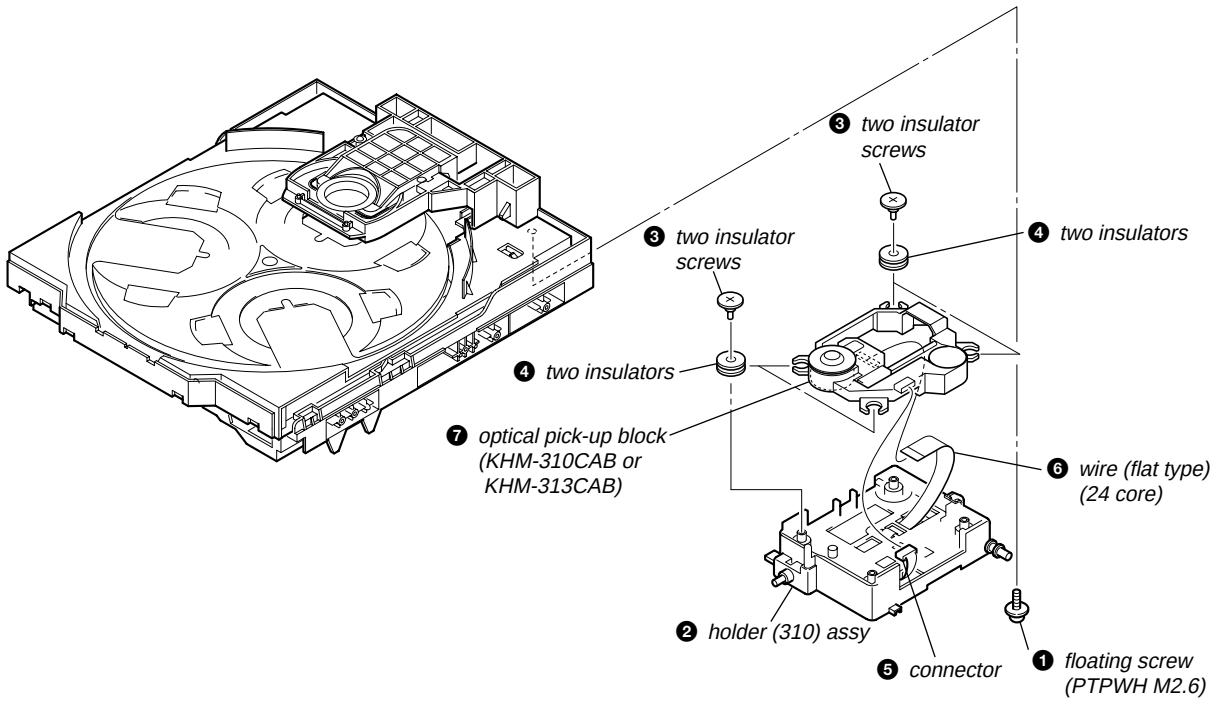
3-11. COVER (CDM)



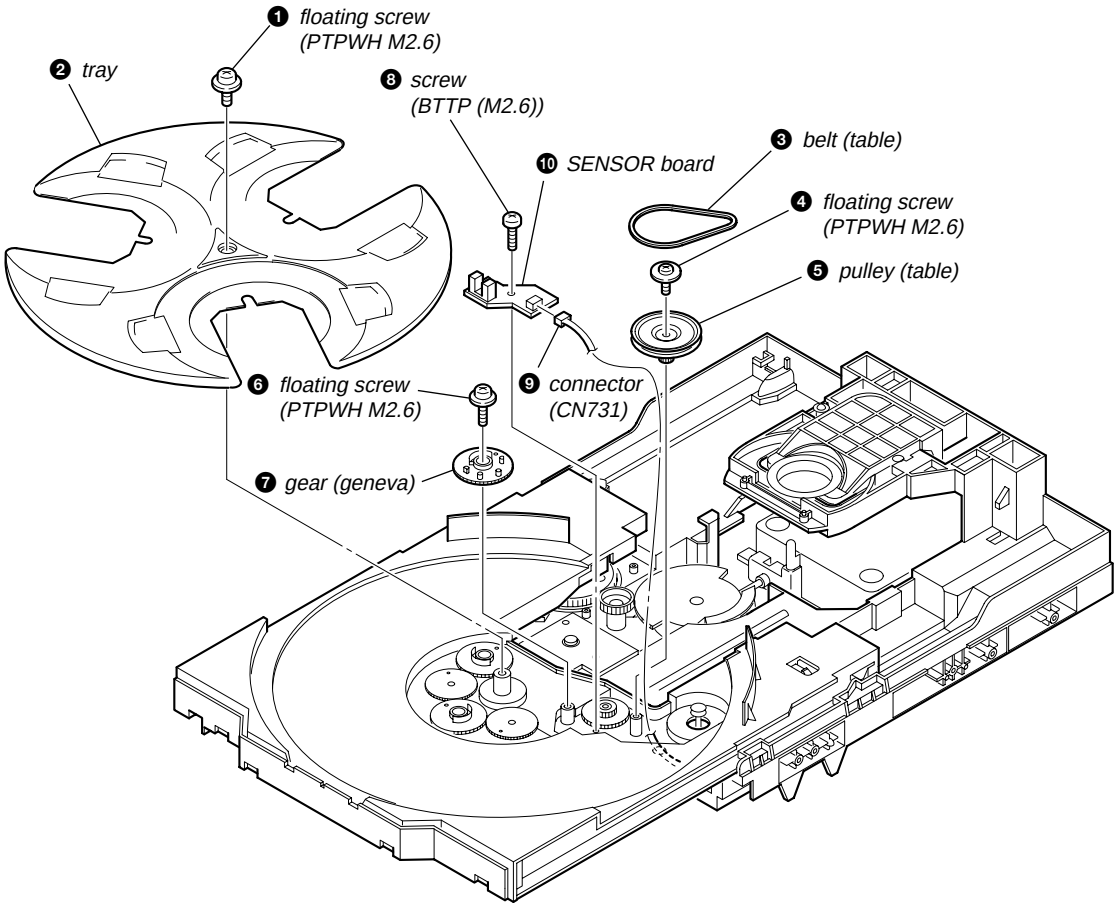
3-12. DRIVER BOARD, SW BOARD



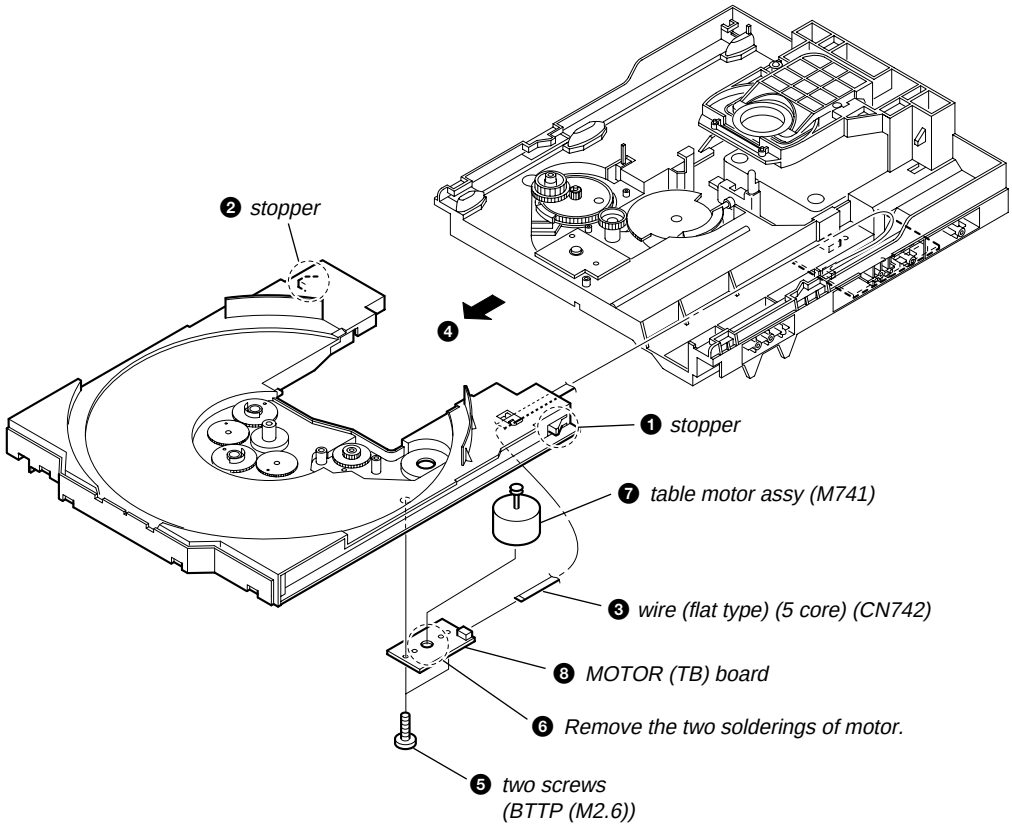
3-13. OPTICAL PICK-UP BLOCK (KHM-310CAB or KHM-313CAB)



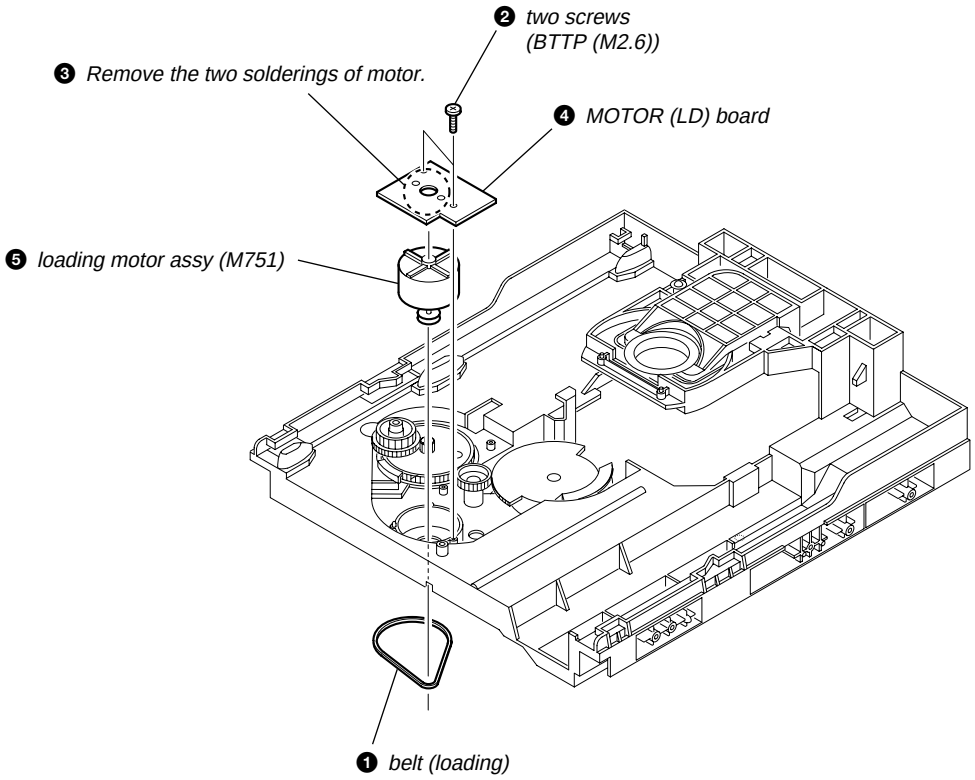
3-14. SENSOR BOARD



3-15. MOTOR (TB) BOARD


❷ stopper
❹
❶ stopper
❼ table motor assy (M741)
❸ wire (flat type) (5 core) (CN742)
❽ MOTOR (TB) board
❻ Remove the two solderings of motor.
❺ two screws (BTTP (M2.6))

3-16. MOTOR (LD) BOARD



SECTION 4
TEST MODE

PANEL TEST MODE

This mode is used to check the fluorescent indicator tube, LEDs, keys, MASTER VOLUME knob, OPERATION DIAL knob, X-ROUND JOG knob, model, destination, software version and VACS level.

Procedure:

1. Press three buttons of [■] , [ENTER] and [DISC 2] simultaneously.
2. All LEDs except [I/⏻] LED (green color) and segments in fluorescent indicator tube are lighted up.
3. When you want to enter the software version display mode, press the [DISC 1] button. The model information appears on the fluorescent indicator tube.
4. Each time the [DISC 1] button is pressed, the display changes from destination information, MC version, GC version, SYS version, DVD version, ST version, TC version, TA version, TM version in this order, and returns to the model information display.
5. When the [DISC 3] button is pressed while the version numbers are being displayed except model information and destination information, the date of the software creation appears. When the [DISC 3] button is pressed again, the display returns to the software version display. When the [DISC 1] button is pressed while the date of the software creation is being displayed, the date of the software creation is displayed in the same order of software version display.
6. Press the [DISC 2] button, the key check mode is activated.
7. In the key check mode, the fluorescent indicator tube displays "K 0 V0J0 X0". Each time a button is pressed, "K 0" value increases. However, once a button has been pressed, it is no longer taken into account.
8. "V" value increases in the manner of 0, 1, 2, 3 ... if the [MASTER VOLUME] knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if the [MASTER VOLUME] knob is turned counterclockwise.
   "J" value increases in the manner of 0, 1, 2, 3 ... if the [OPERATION DIAL] knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if the [OPERATION DIAL] knob is turned counterclockwise.
   "X" value increases in the manner of 0, 1, 2, 3 ... if the [X-ROUND JOG] knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if the [X-ROUND JOG] knob is turned counterclockwise.
9. When the [DISC 3] button is pressed after all LEDs except [I/⏻] LED (green color) and segments in fluorescent indicator tube light up, the fluorescent indicator tube displays "VACS A+B F APC". A is conventional VACS level which is triggered by signal level. B is thermal VACS level which is triggered by temperature F is shown if the fan is turned in high speed and vice-versa. C is VACS level which is triggered by APVACS (Abuse Protection VACS). The signal level , which will trigger VACS A is shown in the center area of the fluorescent indicator tube.
10. When [EX-CHANGE/DISC SKIP] button is pressed after all LEDs except [I/⏻] LED (green color) and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube and LEDs would light up. If you press [EX-CHANGE/DISC SKIP] button again, another half of alternate segments in fluorescent indicator tube and LEDs would light up. Press [EX-CHANGE/DISC SKIP] button again would cause all LEDs except [I/⏻] LED (green color) and segments in fluorescent indicator tube lights up.
11. To release from this mode, press three buttons in the same manner as step 1 or disconnect the power cord.

COMMON TEST MODE

This mode is used to check operations of the respective sections of amplifier and tape.

Procedure:

- **To enter common test mode**
  1. Press three buttons of [■] , [ENTER] and [DISC 3] simultaneously.
  2. The DVD ring indicators, tape A and B indicators and the line below DVD ring indicators and tape A and B indicators flash synchronously on the fluorescent indicator tube. The function is changed to "TV".

- **Check of amplifier**
  1. Press the [EQ BAND] button repeatedly until a message "GEQ MAX" appears on the fluorescent indicator tube. GEQ increases to its maximum.
  2. Press the [EQ BAND] button repeatedly until a message "GEQ MIN" appears on the fluorescent indicator tube. GEQ decreases to its minimum.
  3. Press the [EQ BAND] button repeatedly until a message "GEQ FLAT" appears on the fluorescent indicator tube. GEQ is set to flat.
  4. When the [MASTER VOLUME] knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears on the fluorescent indicator tube.
  5. When the [MASTER VOLUME] knob is turned counterclockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears on the fluorescent indicator tube.

- **Tape function**
  1. When a tape is inserted in deck-B and recording is started, the function is changed to "TV" automatically. When the [CD SYNC] button is pressed during recording in function, ALC (Automatic Logic Control) is turned on.
  2. During recording, press the [◀◀] button will stop the recording and the function is changed to "TAPE B" and rewind the tape in deck-B until the recording start position and playback of the tape is started. If the [REC PAUSE/START] button is pressed for a pause and pressed again to resume recording during recording time, when the tape is rewind, the tape will be rewind until the position where the pause is applied.

- **To release common test mode**
  1. To release from this mode, press the [I/⏻] button.
  2. The cold reset is enforced at the same time.

COLD RESET

The cold reset clears all data including preset data stored in the RAM to initial conditions.

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press three buttons of [■] , [ENTER] and [I/⏻] simultaneously.
3. The message "COLD RESET" appears on the fluorescent indicator tube. Then, the fluorescent indicator tube becomes blink for a while , and the system is reset.

VACS ON/OFF

This mode is used to switch on and off the VACS (Variable Attenuation Control System).

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press two buttons of [■] and [ILLUMINATION] simultaneously. The message "VACS OFF" or "VACS ON" appears on the fluorescent indicator tube.

TUNER STEP CHANGE

The step interval of AM channels can be toggled between 9 kHz and 10 kHz. This mode is not available for Russian model.

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press the [TUNER/BAND] button repeatedly to select the "AM".
3. Press the [I/⏻] button to turn off the system.
4. Press two buttons of [ENTER] and [I/⏻] simultaneously. The system will turn on automatically. The message "AM 9k STEP" or AM 10k STEP" appears on the fluorescent indicator tube and thus the channel step is changed.

DVD SHIP MODE (WITH MEMORY CLEAR)

This mode moves the optical pick-up to the position durable to vibration and clears all data including preset data stored in the RAM to initial conditions. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press the [DVD] button to select the "DVD".
3. Press three buttons of [■] , [DELAY] and [I/⏻] simultaneously during "DVD No Disc" condition. The system will turn off automatically.
4. After the "STANDBY" blinking display finishes, a message "MECHA LOCK" appears on the fluorescent indicator tube and the DVD ship mode is set.

DVD SHIP MODE (WITHOUT MEMORY CLEAR)

This mode moves the optical pick-up to the position durable to vibration.

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press the [DVD] button to select the "DVD".
3. Press two buttons of [DVD] and [I/⏻] simultaneously during "DVD No Disc" condition. The system will turn off automatically.
4. After the "STANDBY" blinking display finishes, a message "MECHA LOCK" appears on the fluorescent indicator tube and the DVD ship mode is set.

DVD TRAY LOCK MODE

This mode is used to lock the disc tray. When this mode is activated, the disc tray will not open when [⏏ OPEN/CLOSE] button or [EX-CHANGE/DISC SKIP] button is pressed. The message "LOCKED" appears on the fluorescent indicator tube.

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press the [DVD] button to select the "DVD".
3. Press two buttons of [■] and [⏏ OPEN/CLOSE] simultaneously and hold down until "LOCKED" or "UNLOCKED" appears on the fluorescent indicator tube (around 5 seconds).

TV/SAT SWITCHING

This mode let you switch from TV to SAT and vice-versa.

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press the [TV/SAT] button to select the "TV".
3. Press two buttons of [TV/SAT] and [I/⏻] simultaneously. The function will changed to SAT. Press the same buttons again to change from SAT to TV.

DVD COLOR SYSTEM

This mode let you change the color system of the video output from PAL to NTSC or vice-versa. This mode is not available for Latin American model and Russian models.

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press the [DVD] button to select the "DVD".
3. Press the [I/⏻] button to turn off the system.
4. Press two buttons of [❚❚] and [I/⏻] simultaneously. The system will turn on automatically. The message "COLOR PAL" or "COLOR NTSC" appears on the fluorescent indicator tube.

REMOTE DISABLE MODE

This mode let you disable the remote commander reception. When this mode is activated, the system will not response if the button on the remote commander is pressed. The message "RemoteDisable" appears on the fluorescent indicator tube. This mode is essential for conducting test and repairing when no interruption from the other remote commander is expected. This mode is cancelled automatically when the AC power supply is cutoff.

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press three buttons of [■] , [FLANGER] and [DISC 2] simultaneously until "RemoteDisable" or "RemoteEnable" appears on the fluorescent indicator tube.

TCM OFFLINE MODE

This mode is used to prevent the system from turning off automatically when TCM is not connected. Therefore, measurements can be done even when TCM is not connected during production.

Procedure:

1. When the system is turned off, press three buttons of [EQ BAND], [TAPE A/B] and [I/⏻] simultaneously. The system will turn on automatically.
2. The message "TCM OFFLINE" appears on the fluorescent indicator tube.

MTK FIRMWARE DISPLAY

This mode is used to display the MTK firmware version.

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press the [DVD] button to select the "DVD".
3. Press the [I/⏻] button to turn off the system.
4. Press two buttons of [■] and [I/⏻] simultaneously. The system will turn on automatically.
5. The version of MTK firmware appears on the TV screen.

MTK OFFLINE

This mode is used to enable audio output from the function other than DVD function in order to check the audio output from the system without connecting MTK.

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press three buttons of [■] , [FLANGER] and [DISC 1] simultaneously and the message "MTK OFFLINE" appears on the fluorescent indicator tube.

DVD SECTION

1. DVD SERVICE MODE GENERAL DESCRIPTION

This mode let you make diagnosis and adjustment easily by using the remote commander and the TV screen. The instructions, diagnostic results, etc. are given on the on-screen display.

2. ENTERING DVD SERVICE MODE

Procedure:

1. Press the I/⏻ button to turn on the system.
2. Press the DVD button to select the "DVD".
3. Press two buttons ■ and ⏏ OPEN/CLOSE simultaneously and then turn the MASTER VOLUME knob clockwise.
4. The message "SERVICE IN" appears on the fluorescent indicator tube and top menu of the Remocon Diagnosis Menu appears on the on-screen display on the TV screen as follows. The model name, IF-con version and Syscon version are displayed at the bottom of the on-screen display.

```
       Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History
4. Version Information



Model Name :xxxxxxxxxx
IF-con:Ver.xx.xx(xxxx)
Syscon:Ver.x.xxx
```

5. To execute each function, press its number by using numeric button on the remote commander.
6. To release from this mode, press the I/⏻ button to turn off the system.

3. EXECUTING IOP MEASUREMENT

In order to execute IOP measurement, the following standard procedures must be followed.

Procedure:

1. From the top menu of Remocon Diagnosis Menu, select "2 Drive Manual Operation" by pressing the 2 button on the remote commander. The following screen appears on the on-screen display

```
       Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Mecha Test Mode
5. MIRR time Adjust
0. Return to Top Menu
```

2. Select "3. Manual Adjustment" by pressing the 3 button on the remote commander. The following screen appears on the on-screen display.

```
            Manual Adjust
1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq boost Adjust:
6. Iop:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:
↑↓  Change Value
[RETURN]Return to previous menu
```

3. Select "6. Iop:" by pressing 6 button on the remote commander.
4. Wait until a hexadecimal number appear in the on-screen display as below.

```
            Manual Adjust
1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq boost Adjust:
6. Iop: ED:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:
↑↓  Change Value
[RETURN]Return to previous menu
```

5. Convert data from hexadecimal to decimal by using conversion table.
6. If the value is smaller than 93 (decimal), then it is OK. However if the value is higher than 93, then BU (base unit) is defective and need to be change.
7. Press the ↩ RETURN button on the remote commander to return to previous menu.
8. Press the 0 button on the remote commander to return to the top menu of Remocon Diagnosis Menu.
9. Press the I/⏻ button to turn off the system.

4. CHECKING EMERGENCY HISTORY

To check the emergency history, please follow the following procedure.

Procedure:

1. From the top menu of Remocon Diagnosis Menu, select "3. Emergency History" by pressing the 3 button on the remote commander. The following screen appears on the on-screen display.

```
          Emg. History Check
Laser Hours      CD    999h  59min
                 DVD   999h  59min

01. 01 05 04 04       00 92 46 00
    00 00 00 00       00 00 23 45

02. 02 02 01 01       00 A9 4B 00
    00 00 00 00       00 00 23 45


[Next]Next page [Prev]Prev page
[0]Return to Top Menu
```

2. You can check the total time when the laser is turned on during playback of DVD and CD from the above menu. The maximum time, which can be displayed are 999h 59min.
3. You can check the error code of latest 10 emergency history from the above menu. To view the previous or next page of emergency history, press the [⏮] or [⏭] button on the remote commander. The error code consists of three kinds of error codes.

A. Error code

```
        Example of Error code

01. [01] 05 04 04       00 92 46 00
    00 00 00 00         00 00 23 45
```

The meaning of error code is as below:

01: Communication error (No reply from syscon)
02: Syscon hung up
03: Power OFF request when syscon hung up
19: Thermal shutdown
24: MoveSledHome error
25: Mechanical move error (5 changer)
26: Mechanical move stack error
30: DC motor adjustment error
31: DPD offset adjustment error
32: TE balance adjustment error
33. TE sensor adjustment error
34. TE loop gain adjustment error
35. FE loop gain adjustment error
36. Bad jitter after adjustment
40. Focus NG
42. Focus layer jump NG
52. Open kick spindle error
51: Spindle stop error
60: Focus on error
61: Seek fail error
62: Read Q data/ID error
70: Lead in data read fail
71: TOC read time out (CD)
80: Can't buffering
81: Unknown media type

B. Parameter of error code

This is the detail of error code.

```
        Example of Error code

01. 01 [05 04 04       00 92 46 00]
    [00 00 00 00       00 00] 23 45
```

C. Time of error code

This is the laser time when an error occurred.

```
        Example of Error code

01. 01 05 04 04       00 92 46 00
    00 00 00 00       00 00 [23 45]
```

To Clear the Laser Hour

Press the [DISPLAY] button on the remote commander and then press the [CLEAR] button on the remote commander. The data for both CD and DVD data are reset.

```
          Emg. History Check
Laser Hours      CD      0h   0min
                 DVD     0h   0min

01. 01 05 04 04       00 92 46 00
    00 00 00 00       00 00 23 45

02. 02 02 01 01       00 A9 4B 00
    00 00 00 00       00 00 23 45


[Next]Next page [Prev]Prev page
[0]Return to Top Menu
```

To Clear the Emergency History

Press the [MENU] button on the remote commander and then press the [CLEAR] button on the remote commander. The error code for all emergency history would be reset.

```
          Emg. History Check
Laser Hours      CD    999h  59min
                 DVD   999h  59min

01. 00 00 00 00       00 00 00 00
    00 00 00 00       00 00 00 00

02. 00 00 00 00       00 00 00 00
    00 00 00 00       00 00 00 00


[Next]Next page [Prev]Prev page
[0]Return to Top Menu
```

To Return to the Top Menu of Remocon Diagnosis Menu

Press the [0] button on the remote commander.

5. CHECKING VERSION INFORMATION

To check the version information, please follow the following procedure.

Procedure:

1. From the top menu of Remocon Diagnosis Menu, select "4. Version Information" by pressing the [4] button on the remote commander. The following screen appears on the on-screen display.

```
         Version information

Firm(Main): Ver. X.XXXX
Firm(Sub): XX.XX
RISC: XXXXXX
8032: XXXXXX
Audio DSP: XX.XX.XX.XX
Servo DSP: XX.XX.XX.XX



[0]Return to Top Menu
```

2. To return to the top menu of Remocon Diagnosis Menu, press the [0] on the remote commander.

SECTION 5
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head, erase head, capstan, pinch roller, rubber belts, idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, appiy suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

TORQUE MEASUREMENT

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	3.06 – 6.96 mN·m (31 – 71 g·cm) (0.43 – 0.98 oz·inch)
FWD Back Tension	CQ-102C	0.19 – 0.58 mN·m (2.0 – 6.0 g·cm) (0.02 – 0.08 oz·inch)
REV	CQ-102RC	3.06 – 6.96 mN·m (31 – 71 g·cm) (0.43 – 0.98 oz·inch)
REV Back Tension	CQ-102RC	0.19 – 0.58 mN·m (2.0 – 6.0 g·cm) (0.02 – 0.08 oz·inch)
FF/REW	CQ-201B	6.96 – 14.02 mN·m (71 – 143 g·cm) 0.98 – 1.99 oz·inch)
FWD	CQ-403A	9.80 mN·m more than 100 g (more than 3.53 oz)
REV	CQ-403R	9.80 mN·m more than 100 g (more than 3.53 oz)

SECTION 6
ELECTRICAL ADJUSTMENTS

DECK SECTION 0 dB=0.775 V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.

TEST TAPE

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment

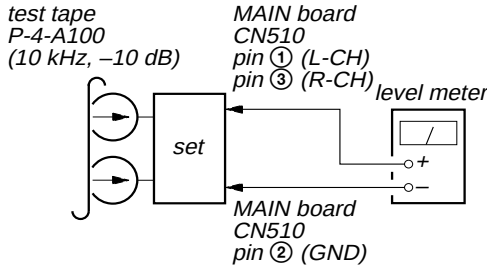
RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

DECK A **DECK B**

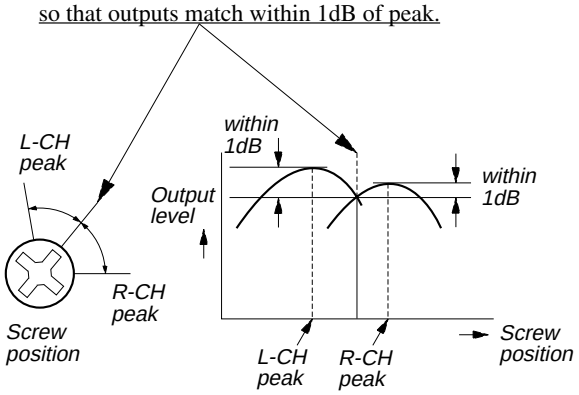
Note : Perform this adjustment for both decks.

Procedure:

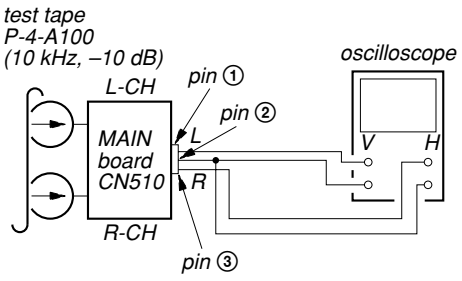
1. Mode: Playback

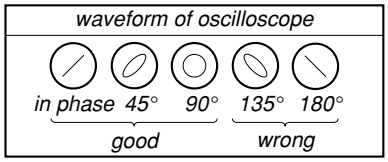


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



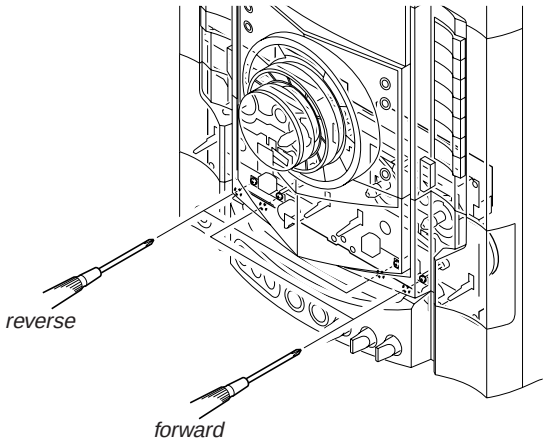
3. Mode: Playback





4. After the adjustments, apply suitable locking compound to the pats adjusted.

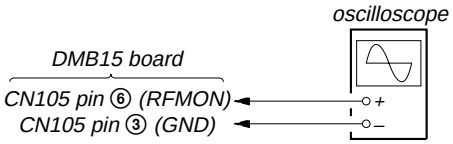
Adjustment Location: Playback Head (DECK-A)
Record/Playback/Erase Head (DECK-B)



DVD SECTION

RFMON LEVEL CHECK

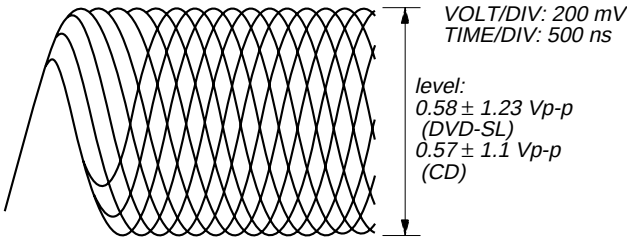
Connection :



Procedure :

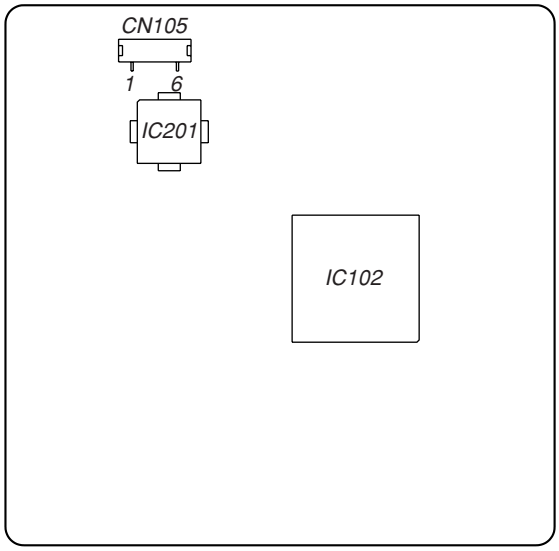
1. Connect an oscilloscope to CN105 pin ⑥ (RFMON) and CN105 pin ③ (GND) on the DMB15 board.
2. Press the I/⏻ button to turn the power on, and press the ⏏ OPEN/CLOSE button to open the CD disc table.
3. Set the test disc (DVD-SL (NTSC): HLX-503 (Part No. J-6090-069-A, CD: YEDS-18 (Part No. 3-702-101-01) on the tray and press the ◄► button to playback.
4. Confirm that oscilloscope waveform is clear and check RFMON signal level is correct or not.

Note: A clear RFMON signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.



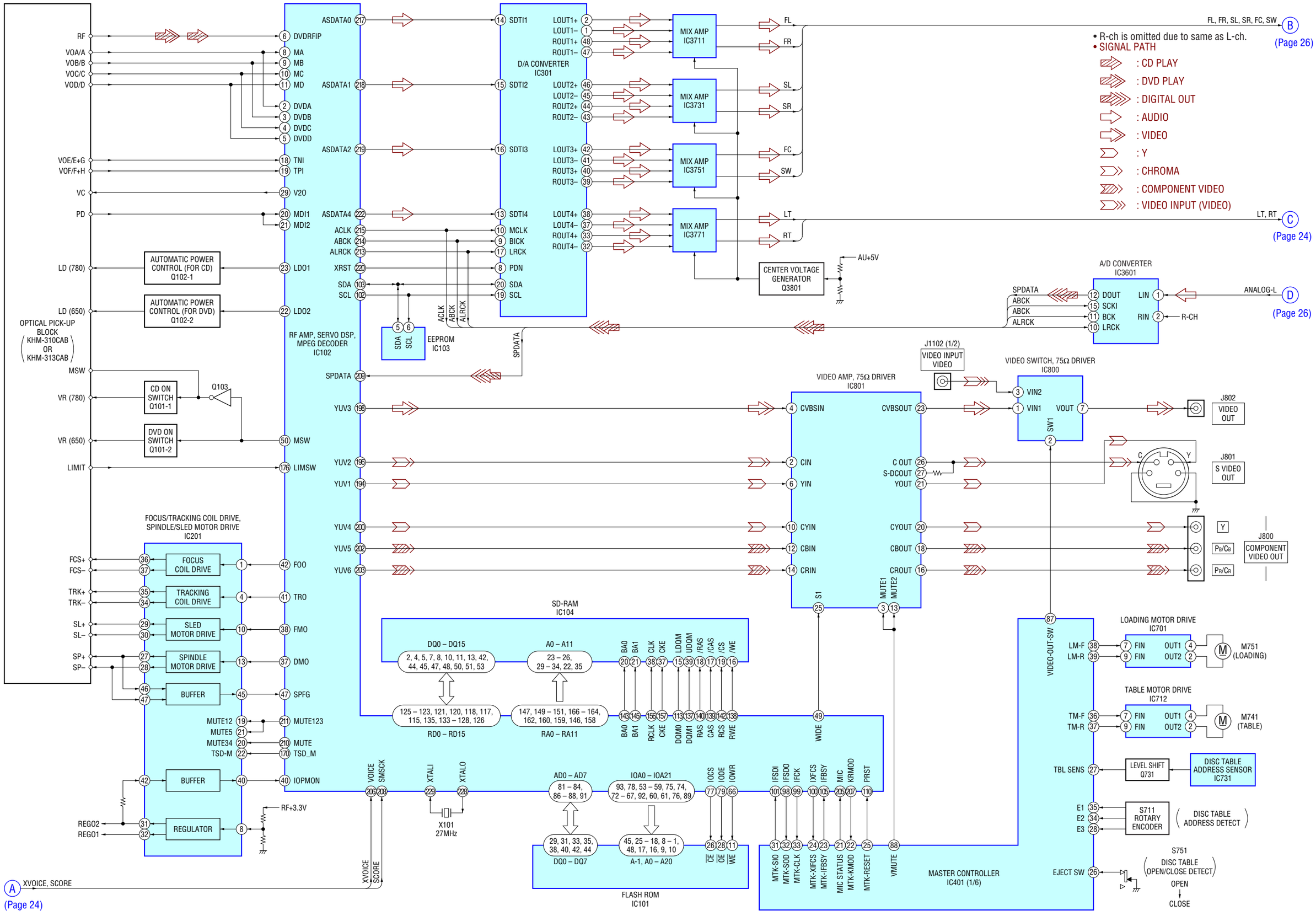
Connecting Location:

– DMB15 Board (Side A) –

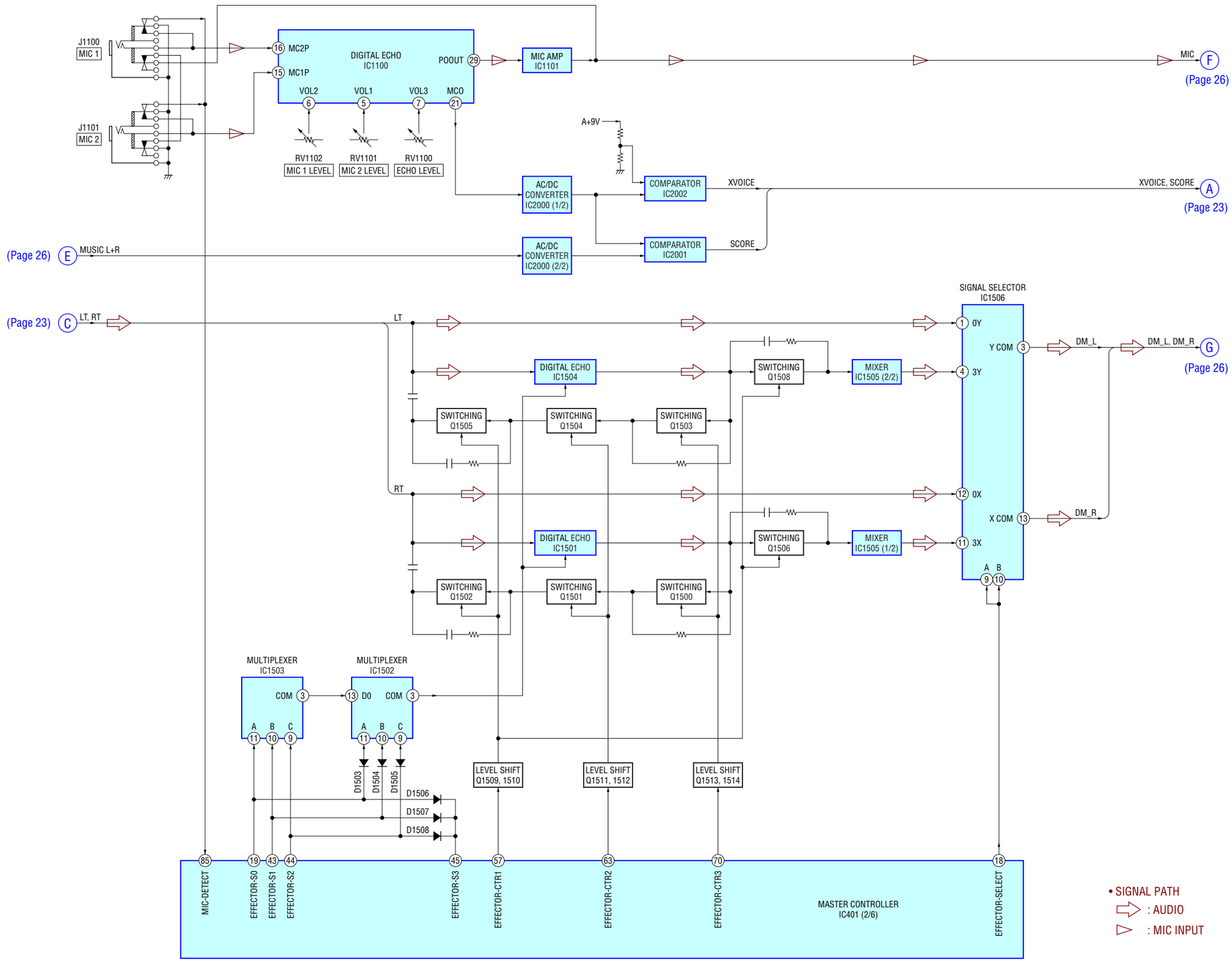


SECTION 7
DIAGRAMS

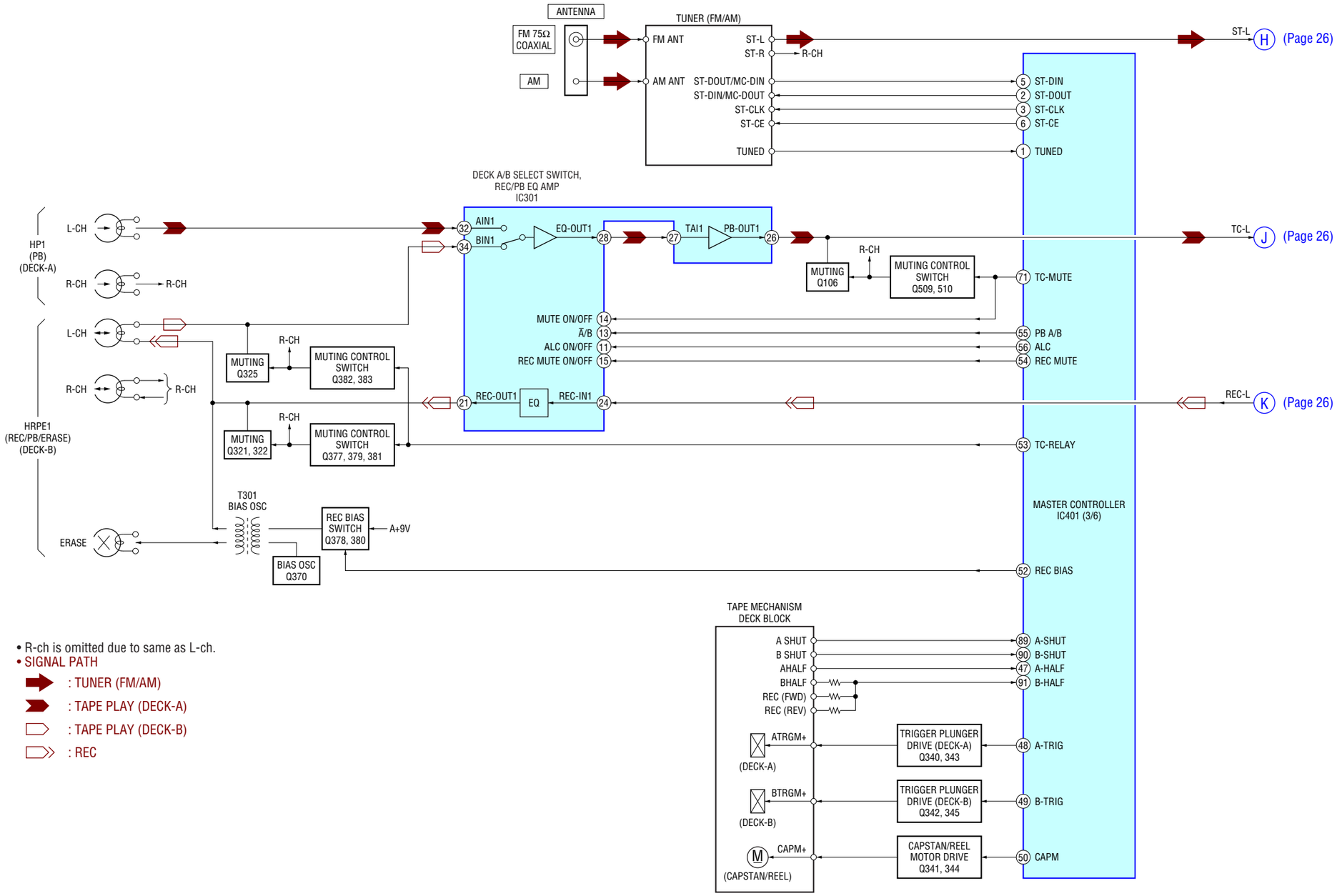
7-1. BLOCK DIAGRAM – RF SERVO/VIDEO SECTION –



7-2. BLOCK DIAGRAM – MIC/EFFECTOR SECTION –

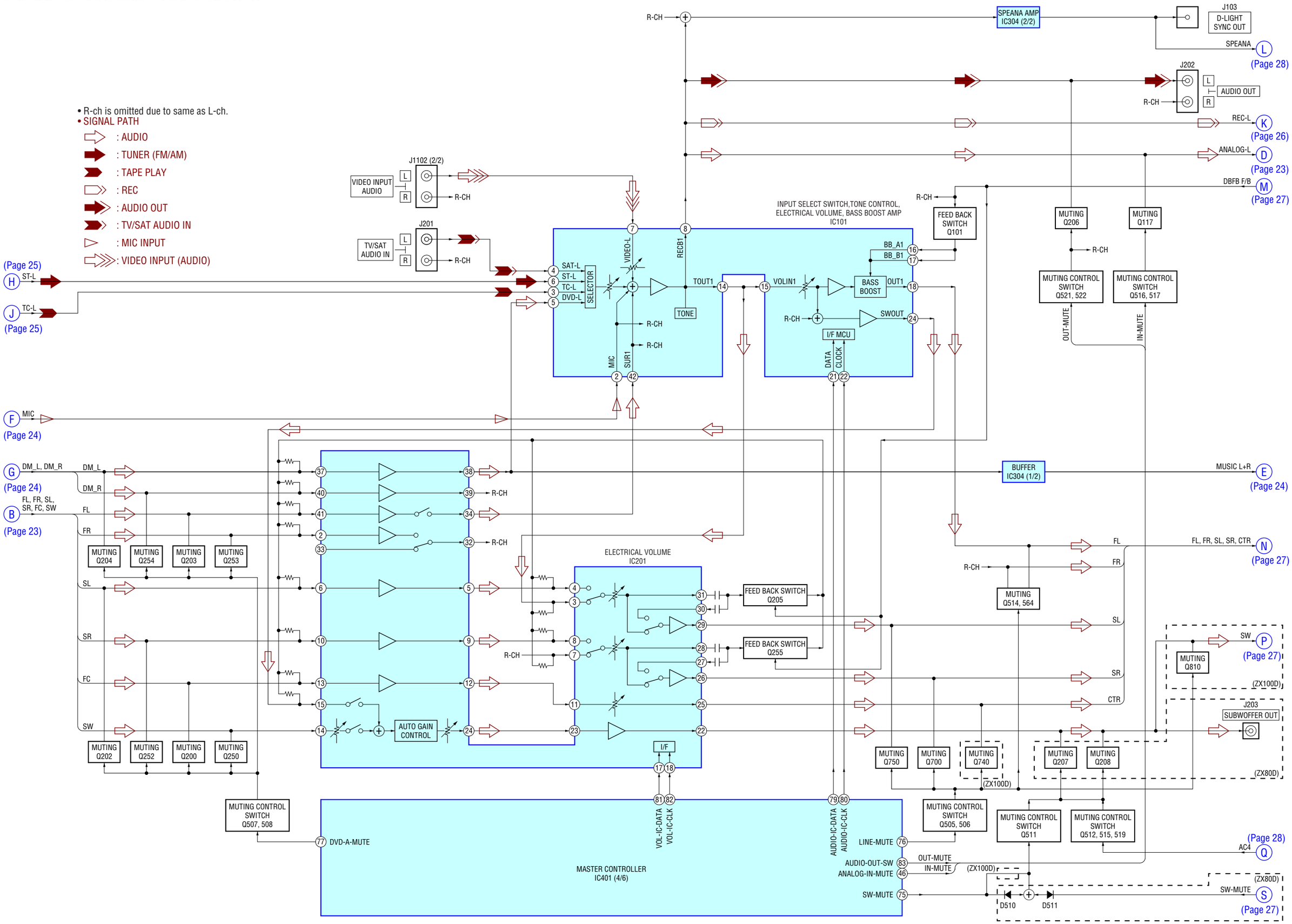


7-3. BLOCK DIAGRAM – TUNER/TAPE SECTION –

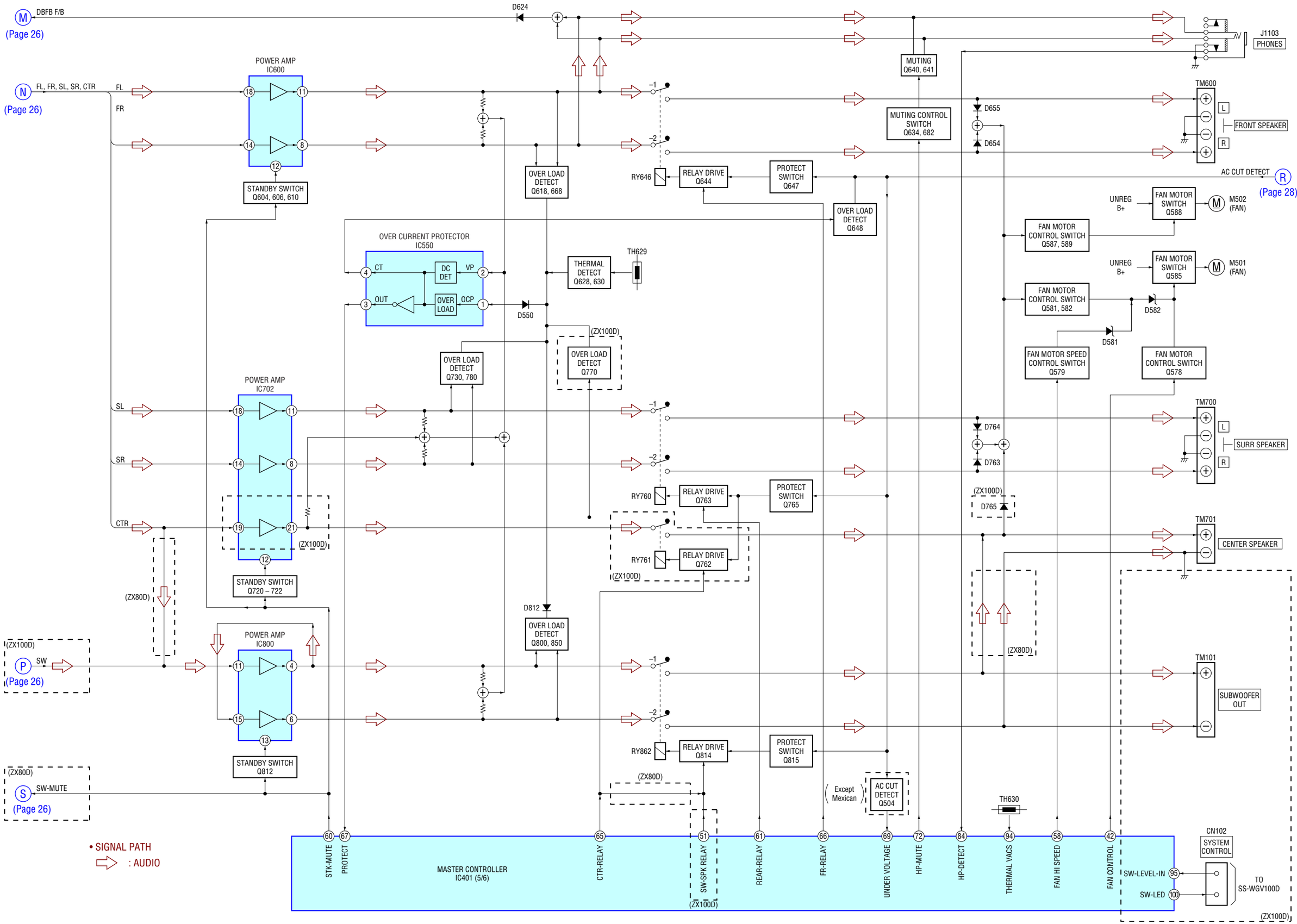


- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : TUNER (FM/AM)
  - : TAPE PLAY (DECK-A)
  - : TAPE PLAY (DECK-B)
  - : REC

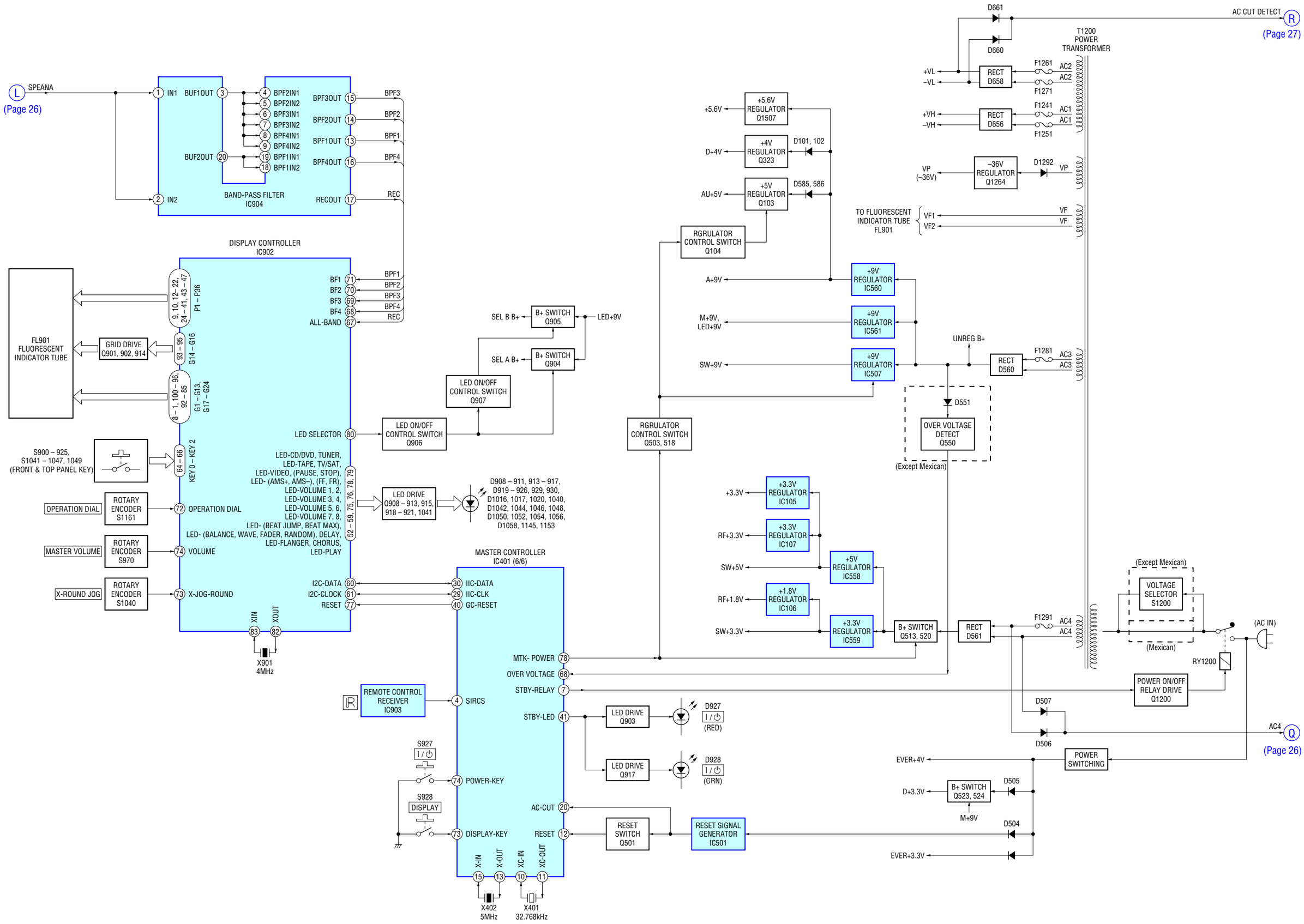
7-4. BLOCK DIAGRAM – AUDIO SECTION –



7-5. BLOCK DIAGRAM – AMP SECTION –



7-6. BLOCK DIAGRAM – PANEL/POWER SUPPLY SECTION –



• Note for Printed Wiring Boards and Schematic Diagrams

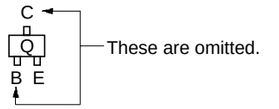
Note on Printed Wiring Board:

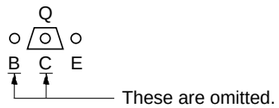
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- DMB15 board is multi-layer printed board. However, the patterns of intermediate layers have not been included in diagrams.
- Indication of transistor





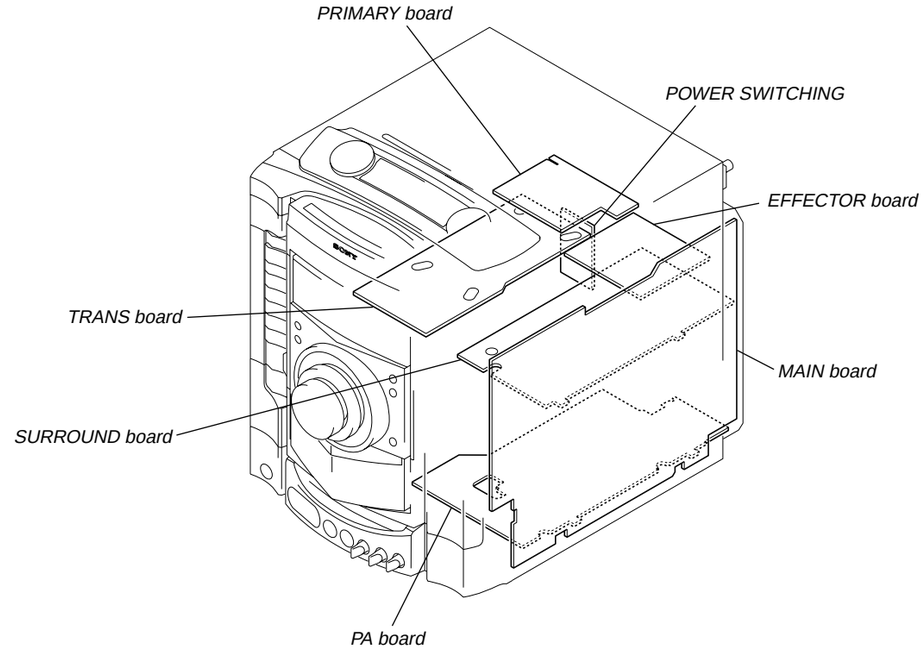
Note on Schematic Diagram:

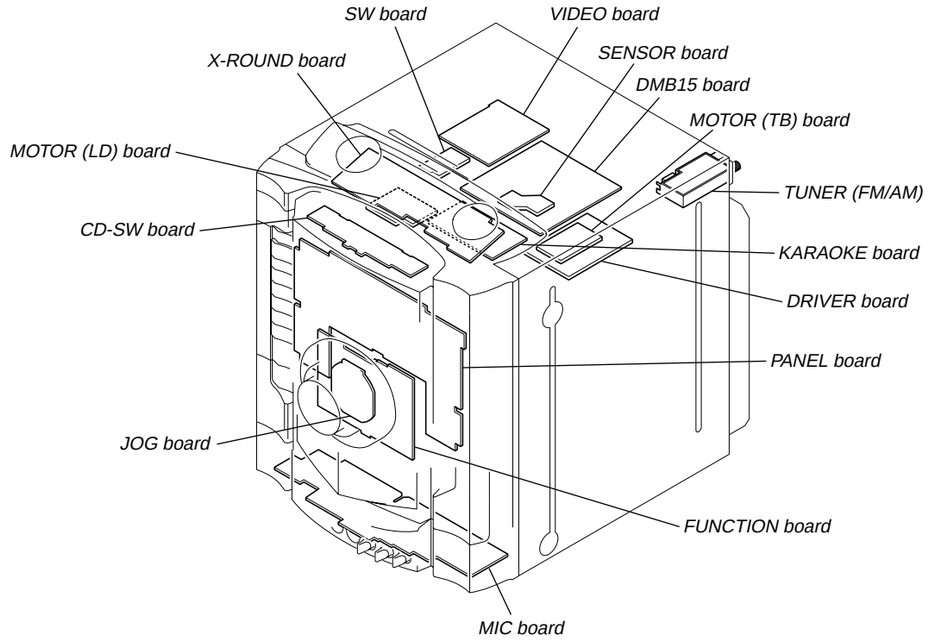
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  – DMB15/VIDEO Boards –
  no mark : DVD PLAY
  ＊ : Impossible to measure
  – Other Boards –
  no mark : TUNER (FM/AM)
  ( ) : DVD PLAY
  〈〈 〉〉 : TAPE PLAY (DECK-A)
  { } : REC
  ＊ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : CD PLAY
  : DVD PLAY
  : DIGITAL OUT
  : AUDIO
  : VIDEO
  : Y
  : CHROMA
  : COMPONENT VIDEO
  : TUNER (FM/AM)
  : TAPE PLAY (DECK-A)
  : TAPE PLAY (DECK-B)
  : REC
  : TV/SAT AUDIO IN
  : AUDIO OUT
  : MIC INPUT
  : VIDEO INPUT (AUDIO)
  : VIDEO INPUT (VIDEO)
- Abbreviation
  E2 : 120V AC area in E model
  E3 : 240V AC area in E model
  E13 : Russian model and 220V – 230V AC area in E model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  MY : Malaysia model
  SP : Singapore model

• Circuit Boards Location



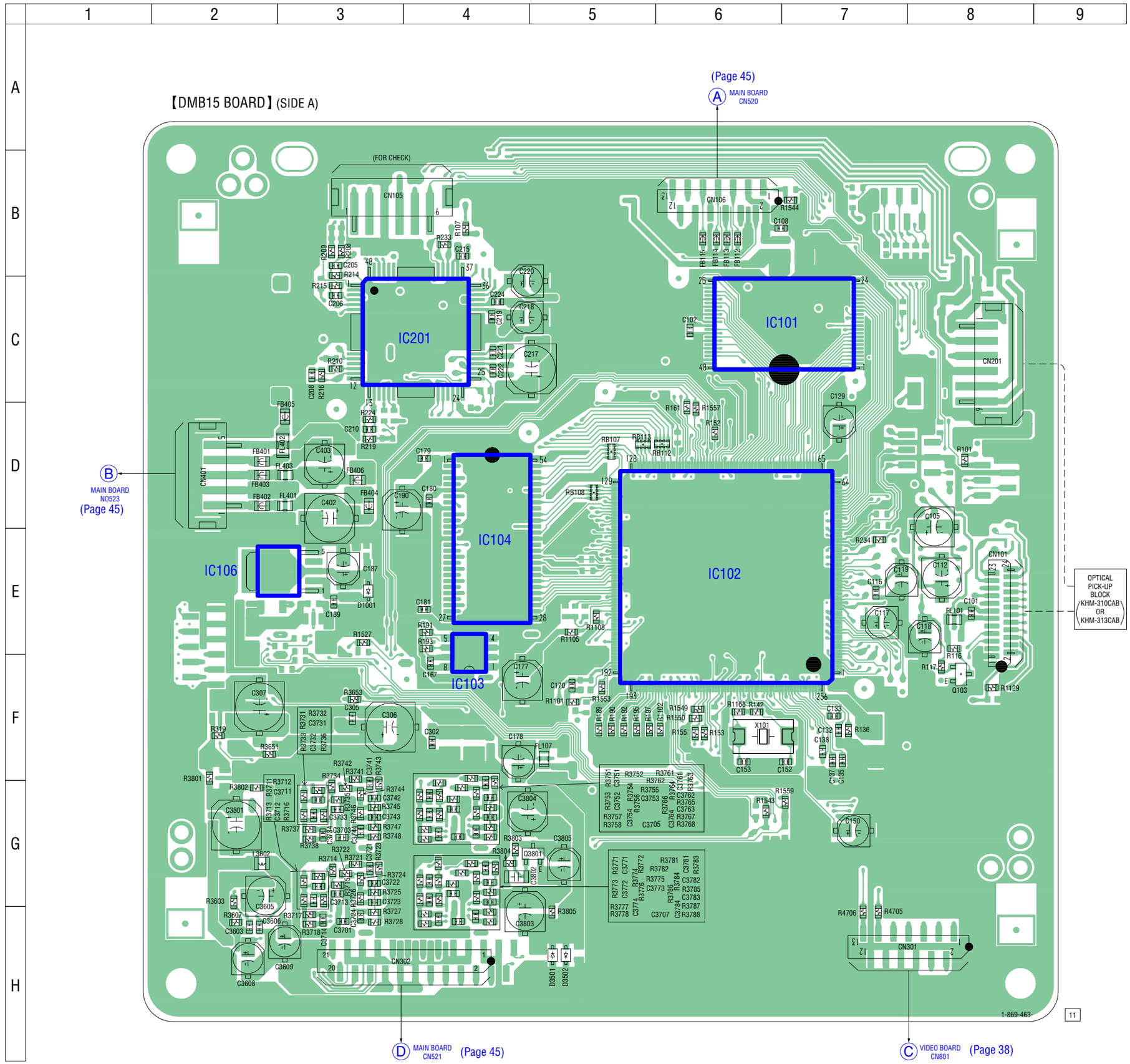


7-7. PRINTED WIRING BOARD – DMB15 Board (Side A) –

• See page 29 for Circuit Boards Location. : Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D1001	E-3
D3501	H-5
D3502	H-5
IC101	C-7
IC102	E-6
IC103	E-4
IC104	E-4
IC106	E-3
IC201	C-4
Q103	F-8
Q3801	G-5



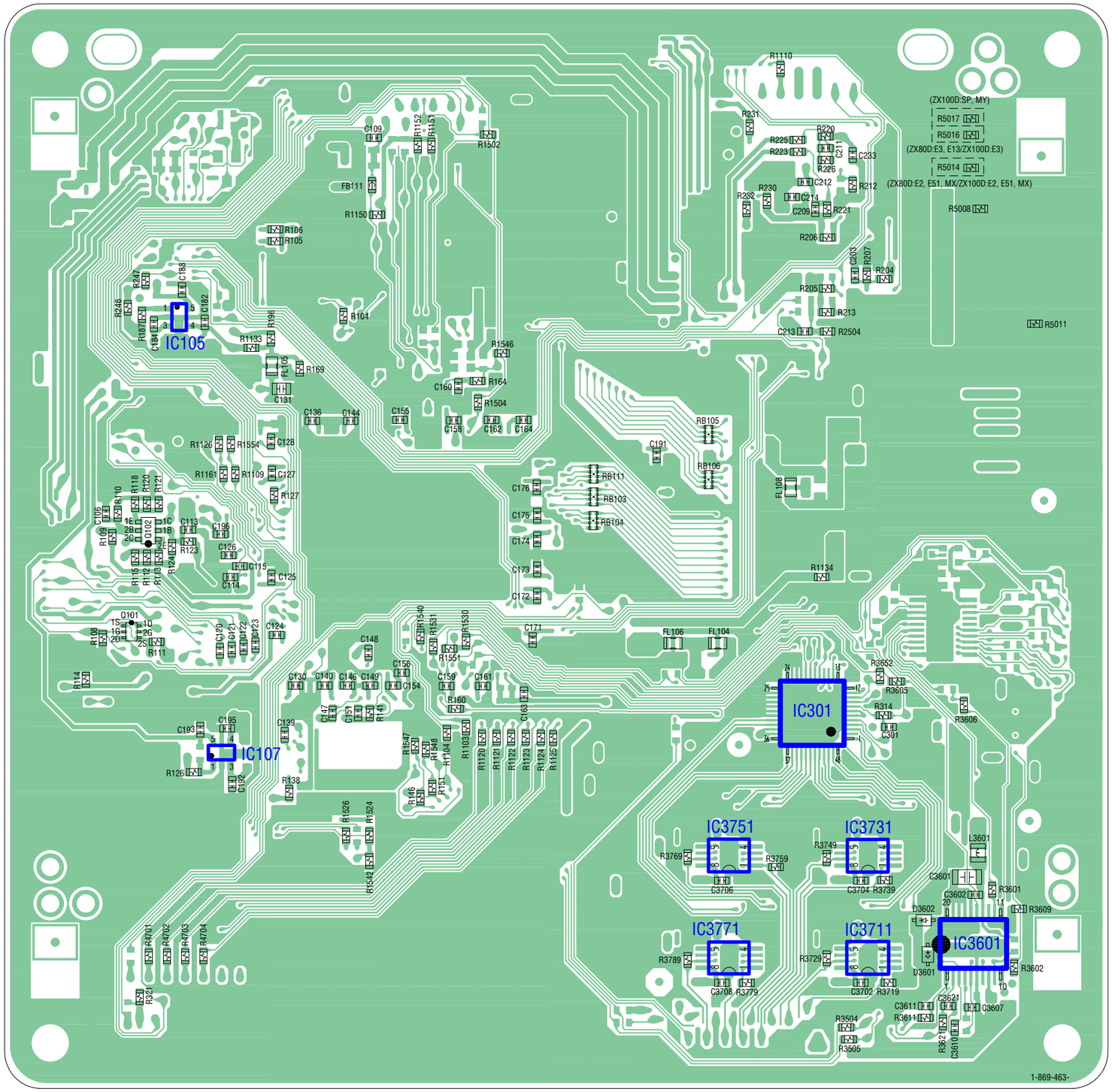
New part of EEPROM (IC103) on the DMB15 board cannot be used. Therefore, if the mounted DMB15 board is replaced, exchange new EEPROM with that used before the replacement.

7-8. PRINTED WIRING BOARD – DMB15 Board (Side B) –

• See page 29 for Circuit Boards Location.

: Uses unleaded solder.

【DMB15 BOARD】(SIDE B)



- **Semiconductor Location**

Ref. No.	Location
D3601	H-8
D3602	G-7
IC105	C-3
IC107	F-3
IC301	F-7
IC3601	G-8
IC3711	H-7
IC3731	G-7
IC3751	G-6
IC3771	H-6
Q101	E-2
Q102	E-2

7-9. SCHEMATIC DIAGRAM – DMB15 Board (1/4) –

• See page 67 for IC Block Diagrams.

【DMB15 BOARD】(1/4)

OPTICAL PICK-UP BLOCK (KHM-310CAB OR KHM-313CAB) (1/2)

IC107 +3.3V REGULATOR IC107 TK11133CSCL-G (IC B/D)

IC104 SD-RAM IC104 A2V64S40CTP-G75

IC103 EEPROM IC103 BR24L64F-WE2

IC101 FLASH ROM IC101
MX29LV320CBTC70-CBA3-0604CE (ZX80D:E3,E13/ZX100D:E3)
MX29LV320CBTC70-CBA3-0604GA (ZX100D:SP,MY)
MX29LV320CBTC70-CBA3-0604UC (ZX80D:E2,E51/ZX100D:E2,E51)
S29AL032D70TF-CBA3-0601UC (ZX80D:MX/ZX100D:MX)

IC105 +3.3V REGULATOR IC105 TK11133CSCL-G (IC B/D)

IC106 +1.8V REGULATOR IC106 PQ018EN01ZPH

Q101 UM6K1N-TN — Q101-1 CD ON SWITCH, Q101-2 DVD ON SWITCH

Q102 QST8TR — Q102-1 AUTOMATIC POWER CONTROL(FOR CD), Q102-2 AUTOMATIC POWER CONTROL(FOR DVD)

Q103 DTC124EKA-T146 INVERTER

D1001 RB501V-40TE-17

CN101 24P: GND (LD), LD (650), NC, NC, PD, LD (780), VR (650), VR (780), NC, VOE/E+G, VCC, VC, GND (PDIC), VOF/F+H, VOB/B, VOA/A, RF, (LO:DVD,HI:CD)MSW, VOD/D, VOC/C, TRK-, TRK+, FCS+, FCS-

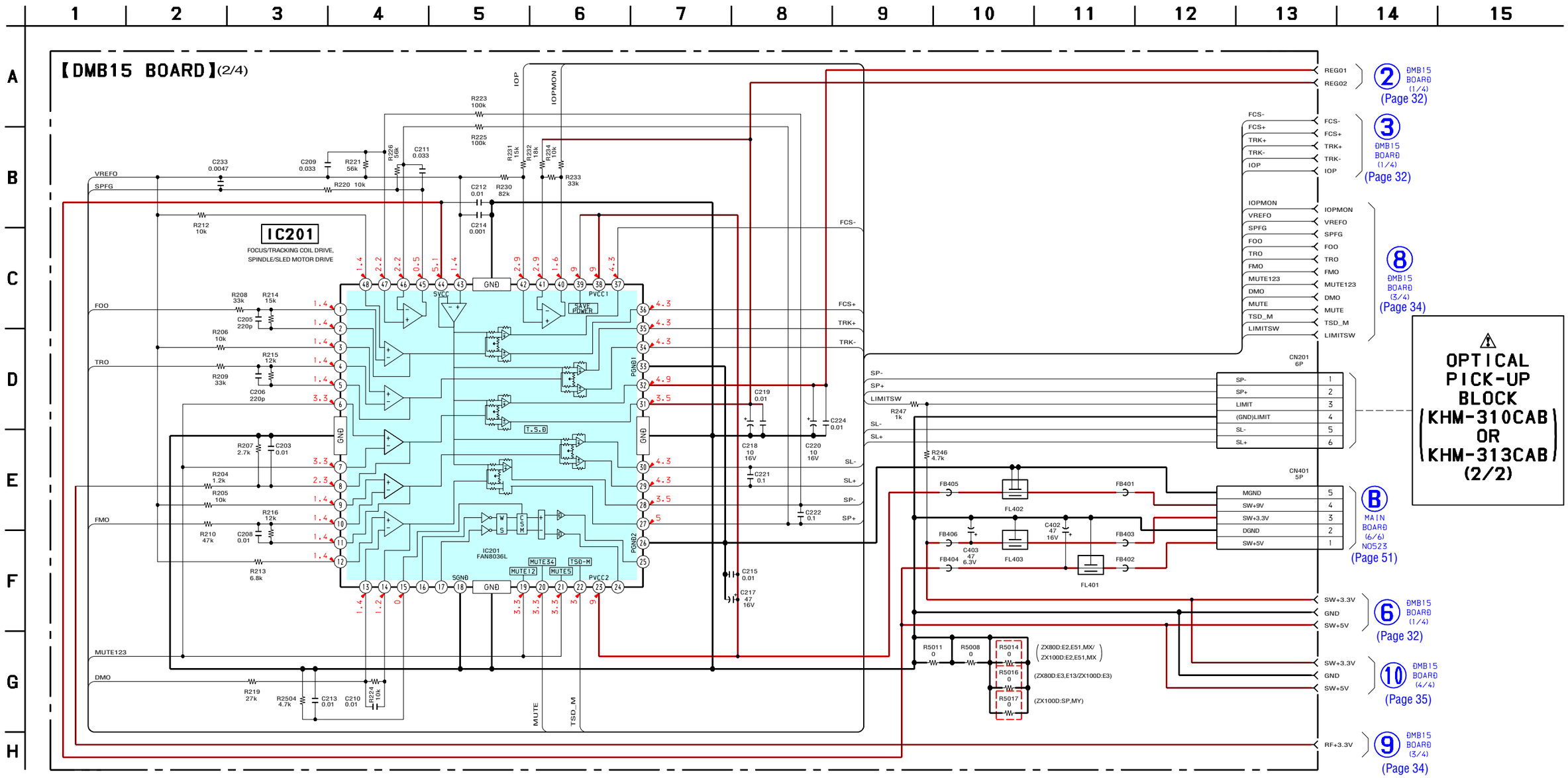
CN106 13P: OCSW1, SYSRST, 3.3VMNT, XIFCS, IFBSY, SIO, SOO, M-REQ, SCO, DGND, MIC, VOICE, KRMOD

CN105 6P (FOR CHECK): RFMON, V2REFO, +3.3V, GND, RXD, TXD

DMB15 BOARD (3/4) ① (Page 34) — RF+3.3V, RF1.8
DMB15 BOARD (2/4) ② (Page 33) — REG01, REG02
DMB15 BOARD (2/4) ③ (Page 33) — FCS-, FCS+, TRK+, TRK-, IOP, RF, VOA, VOB, VOC, VOD, VOE, VOF, PD, MSW, VC, LDO2, PRST, LDO1, TXD, RXD, IFBSY, SDA, SCL, IDSDI, XIFCS, IFCK, IFSDO, MREQ, MIC, KRMOD, V2REFO
DMB15 BOARD (3/4) ④ (Page 34)
DMB15 BOARD (3/4) ⑤ (Page 34) — A11, A12, A6, A5, A4, A9, A10, A7, A8
DMB15 BOARD (2/4) ⑥ (Page 33) — SW+3.3V, SW+5V, GND
DMB15 BOARD (3/4) ⑦ (Page 34) — A1, A2, A3
MAIN BOARD (1/6) Ⓐ CN520 (Page 46)

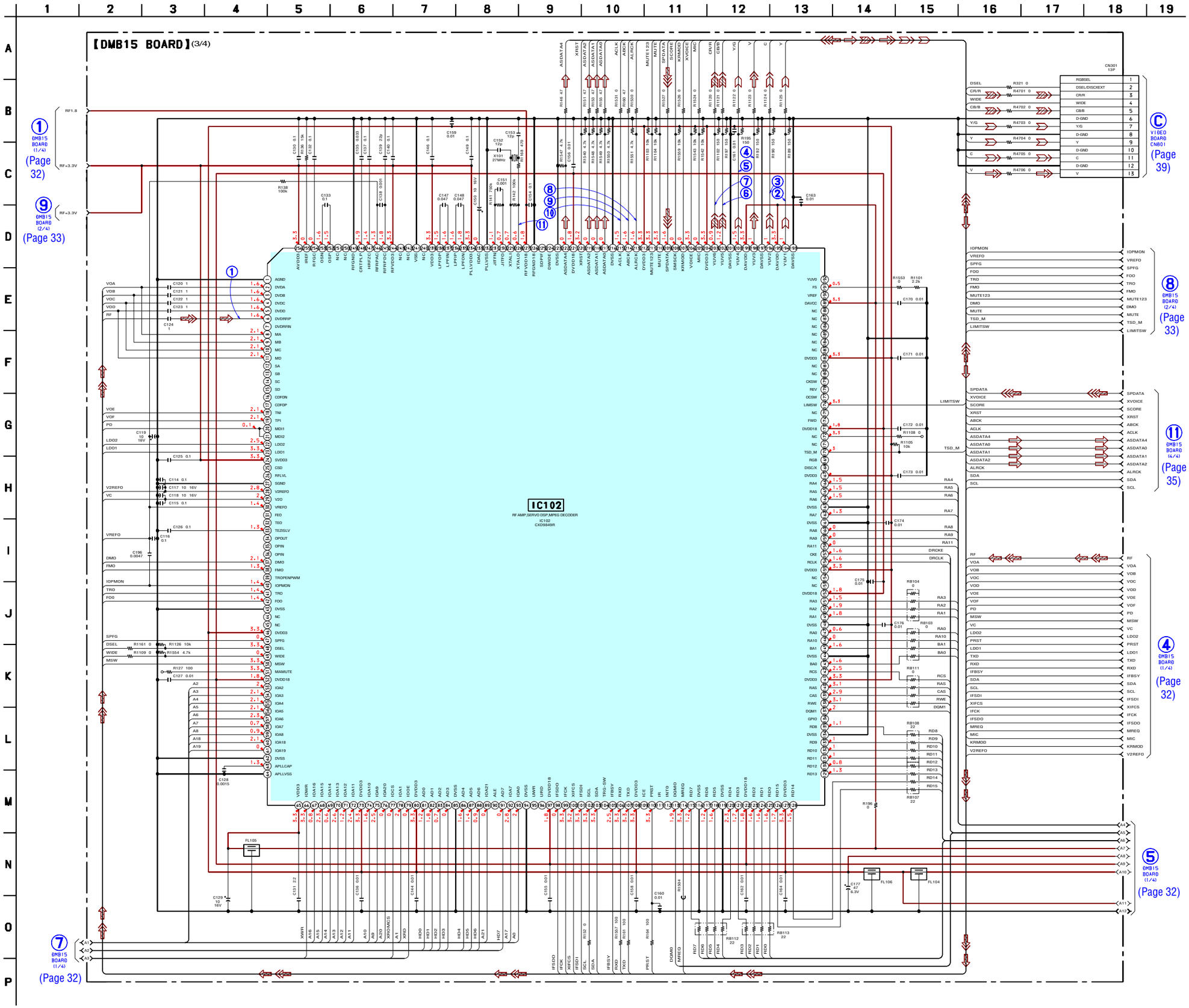
New part of EEPROM (IC103) on the DMB15 board cannot be used. Therefore, if the mounted DMB15 board is replaced, exchange new EEPROM with that used before the replacement.

7-10. SCHEMATIC DIAGRAM – DMB15 Board (2/4) –



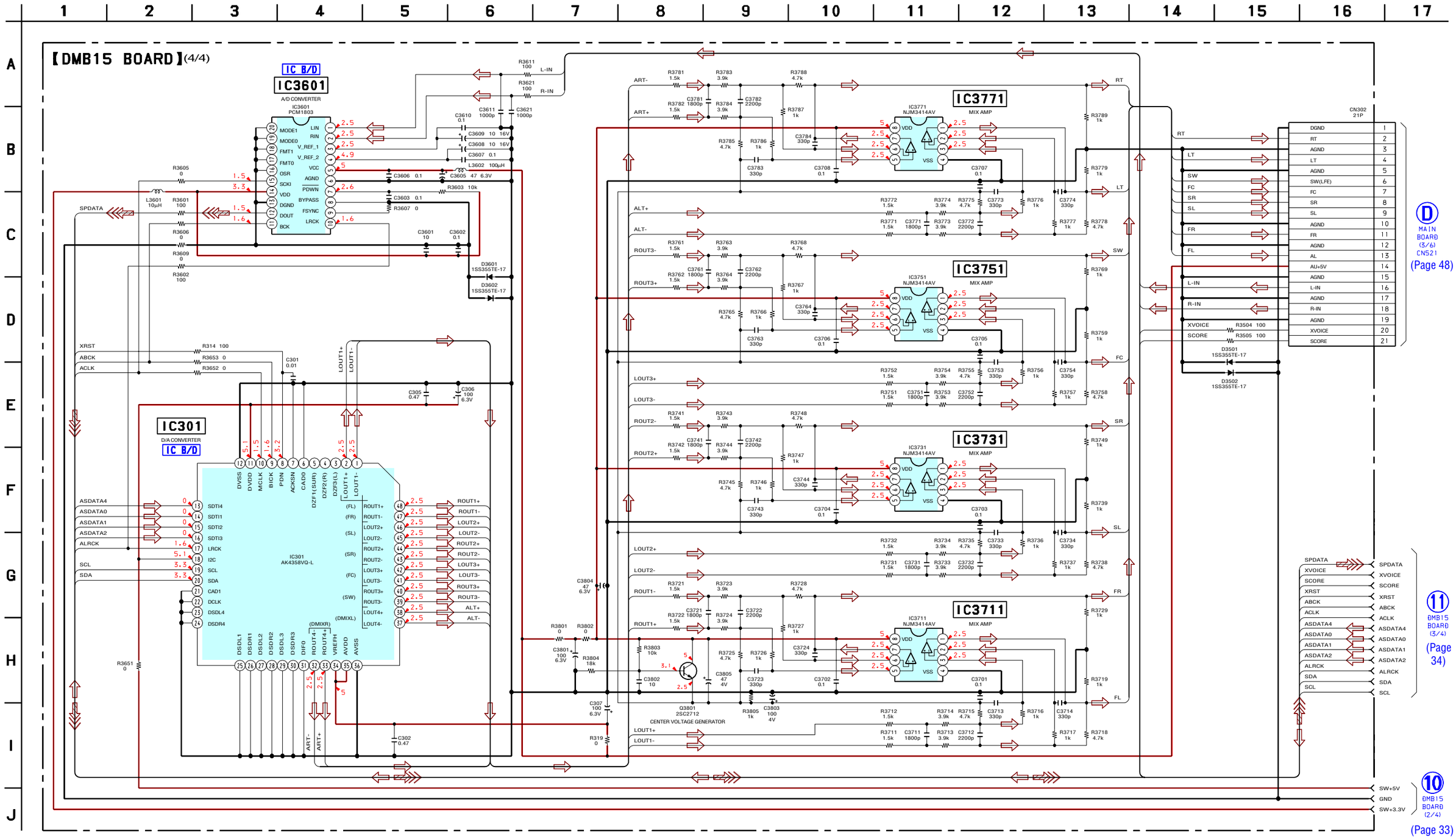
7-11. SCHEMATIC DIAGRAM – DMB15 Board (3/4) –

• See page 54 for Waveforms. • See page 71 for IC Pin Function Description.



7-12. SCHEMATIC DIAGRAM – DMB15 Board (4/4) –

• See page 67 for IC Block Diagrams.



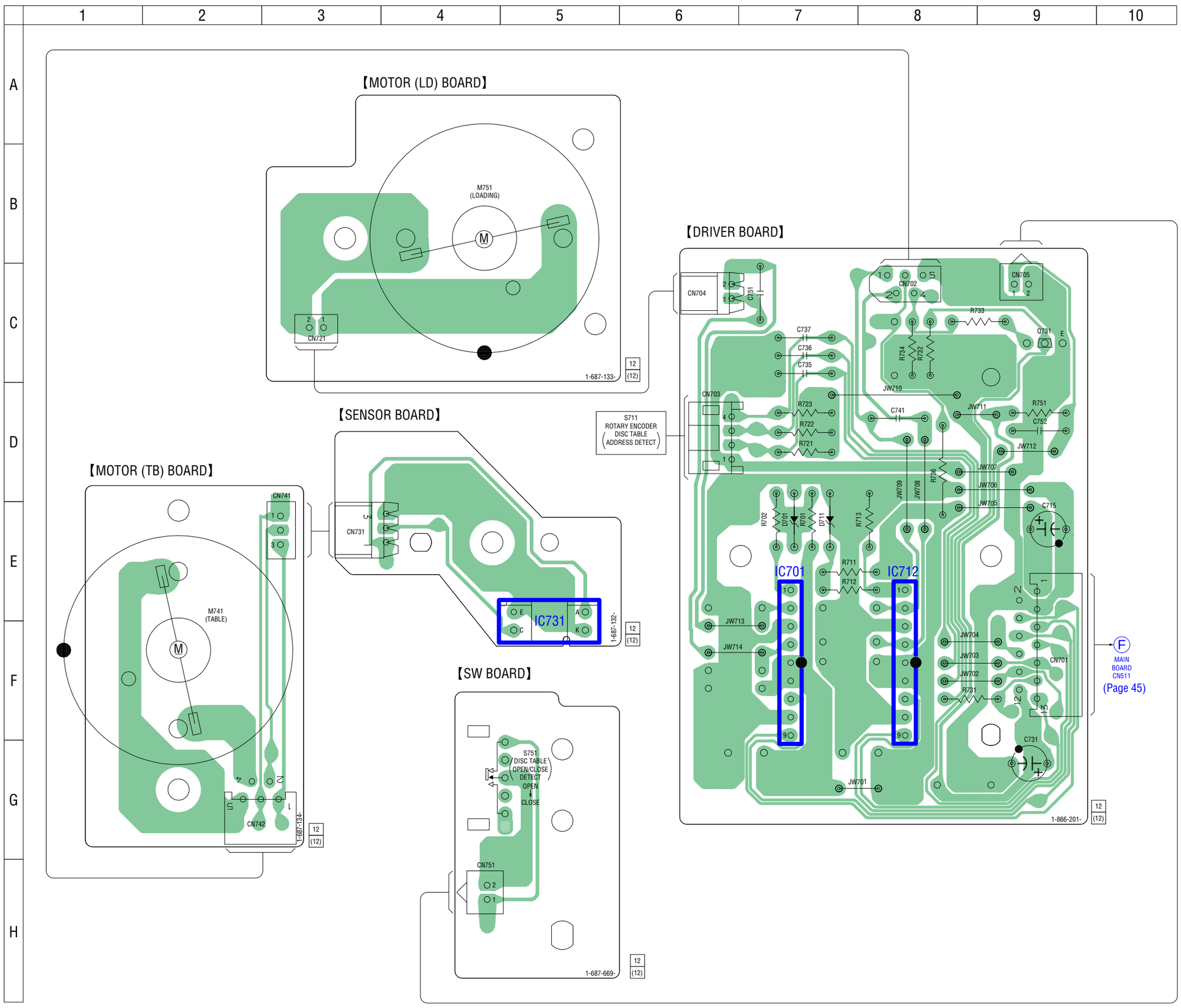
7-13. PRINTED WIRING BOARDS – CHANGER Section –

• See page 29 for Circuit Boards Location.

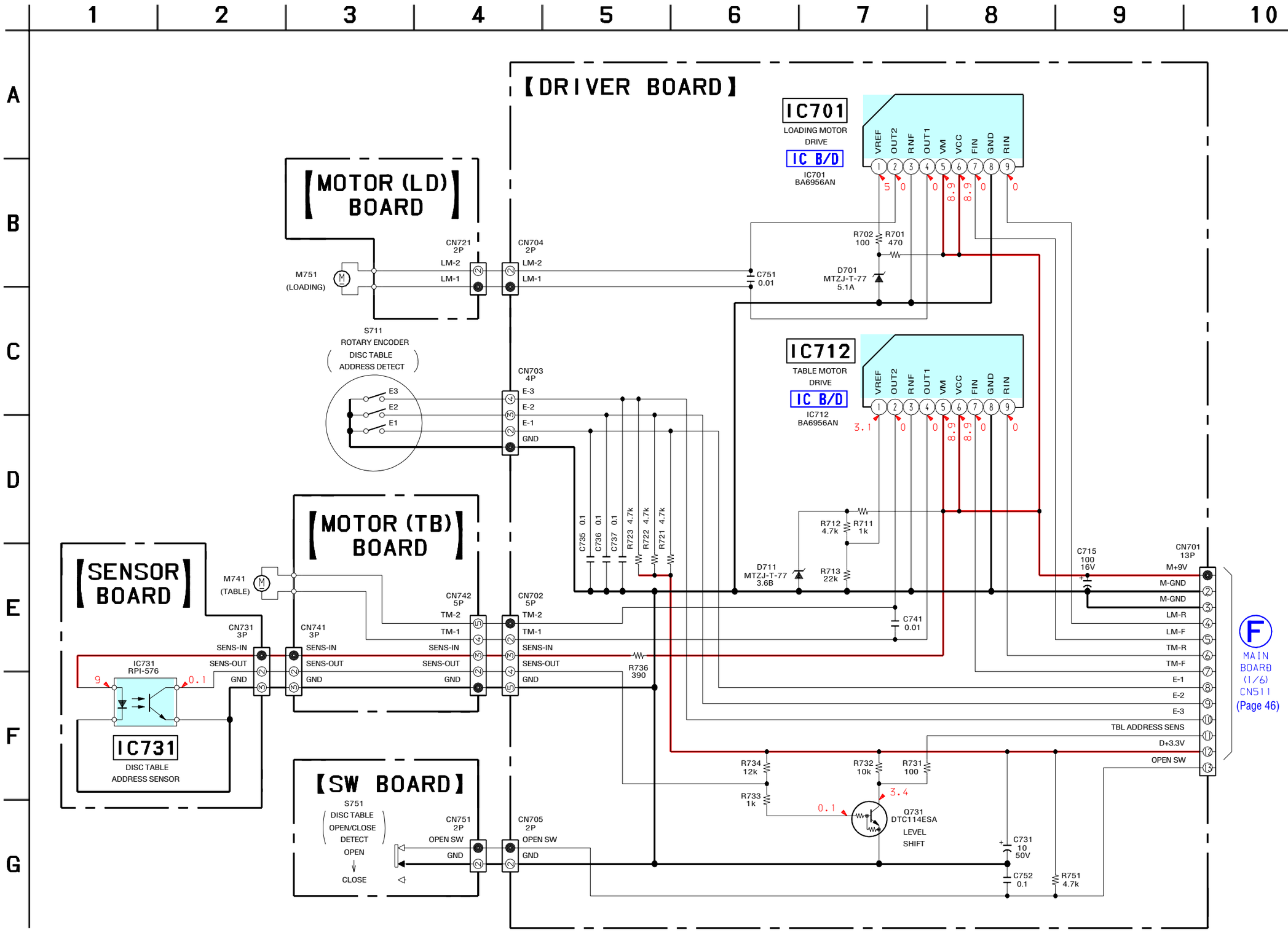
: Uses unleaded solder.

• **Semiconductor Location**

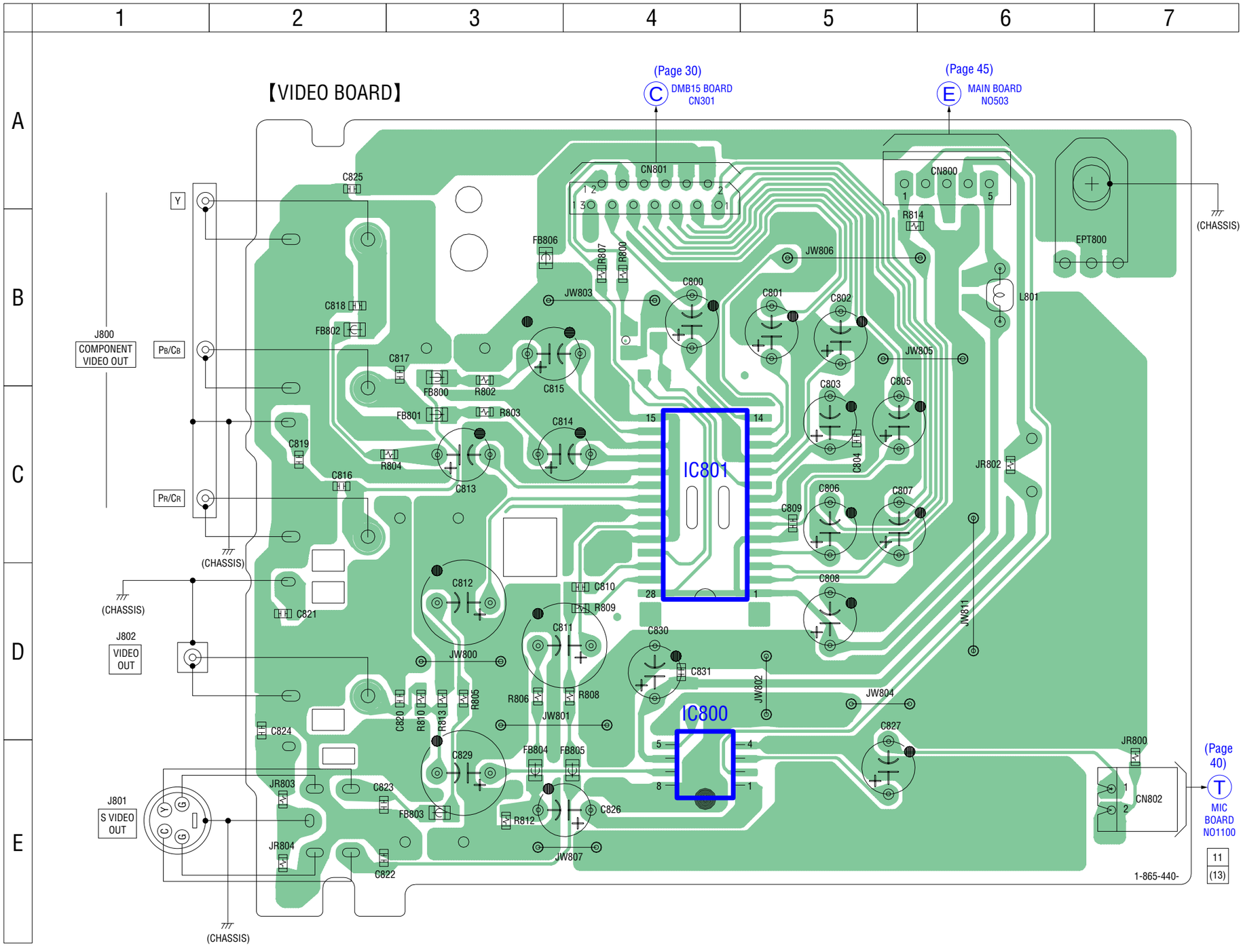
Ref. No.	Location
D701	E-7
D711	E-7
IC701	F-7
IC712	F-8
IC731	F-5
Q731	C-9



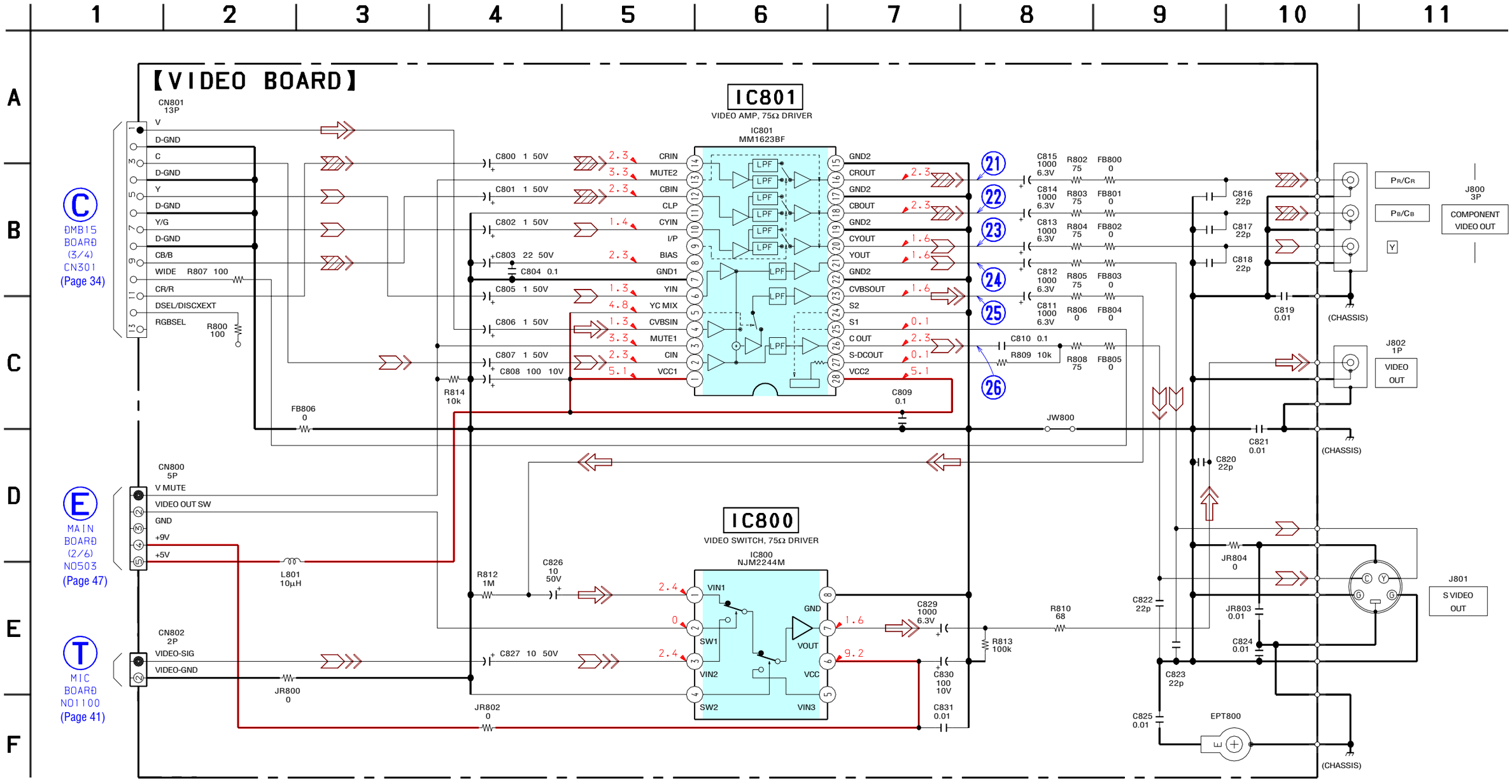
7-14. SCHEMATIC DIAGRAM – CHANGER Section – • See page 67 for IC Block Diagrams.



7-15. PRINTED WIRING BOARD – VIDEO BOARD – • See page 29 for Circuit Boards Location. : Uses unleaded solder.



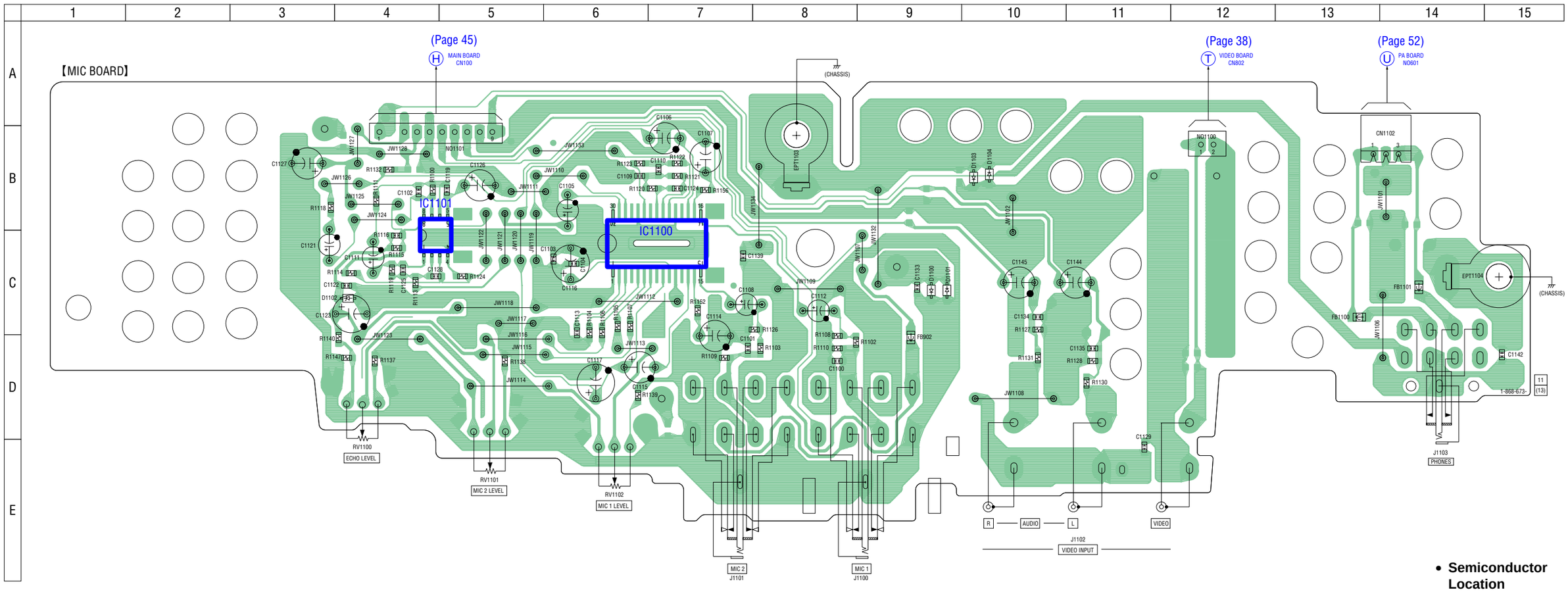
7-16. SCHEMATIC DIAGRAM – VIDEO Board – • See page 54 for IC Waveforms.



7-17. PRINTED WIRING BOARD – MIC BOARD –

• See page 29 for Circuit Boards Location.

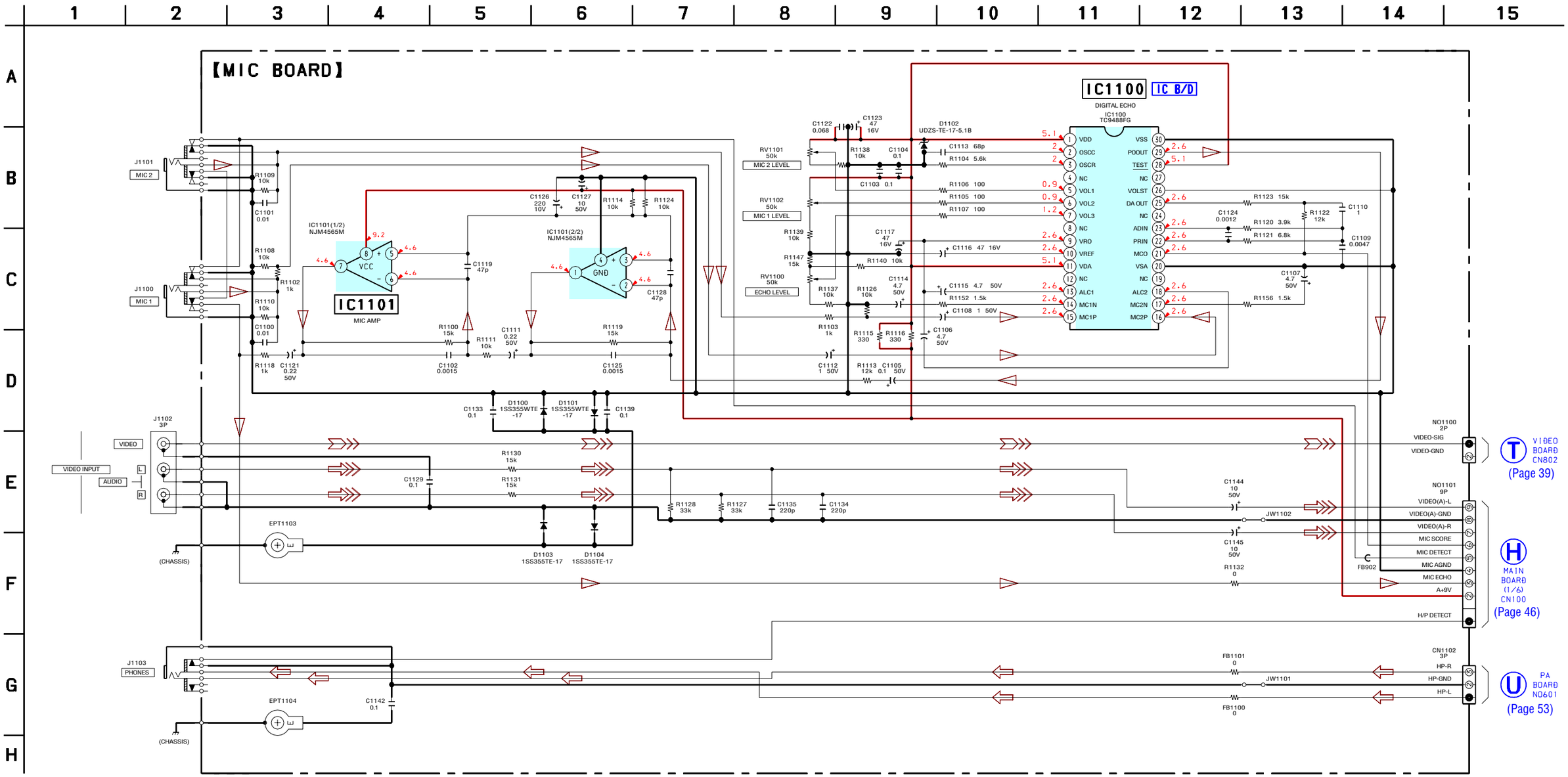
: Uses unleaded solder.



- **Semiconductor Location**

Ref. No.	Location
D1100	C-9
D1101	C-9
D1102	C-3
D1103	B-10
D1104	B-10
IC1100	C-7
IC1101	C-4

7-18. SCHEMATIC DIAGRAM – MIC Board – • See page 67 for IC Block Diagrams.



7-19. PRINTED WIRING BOARD – EFFECTOR Board –

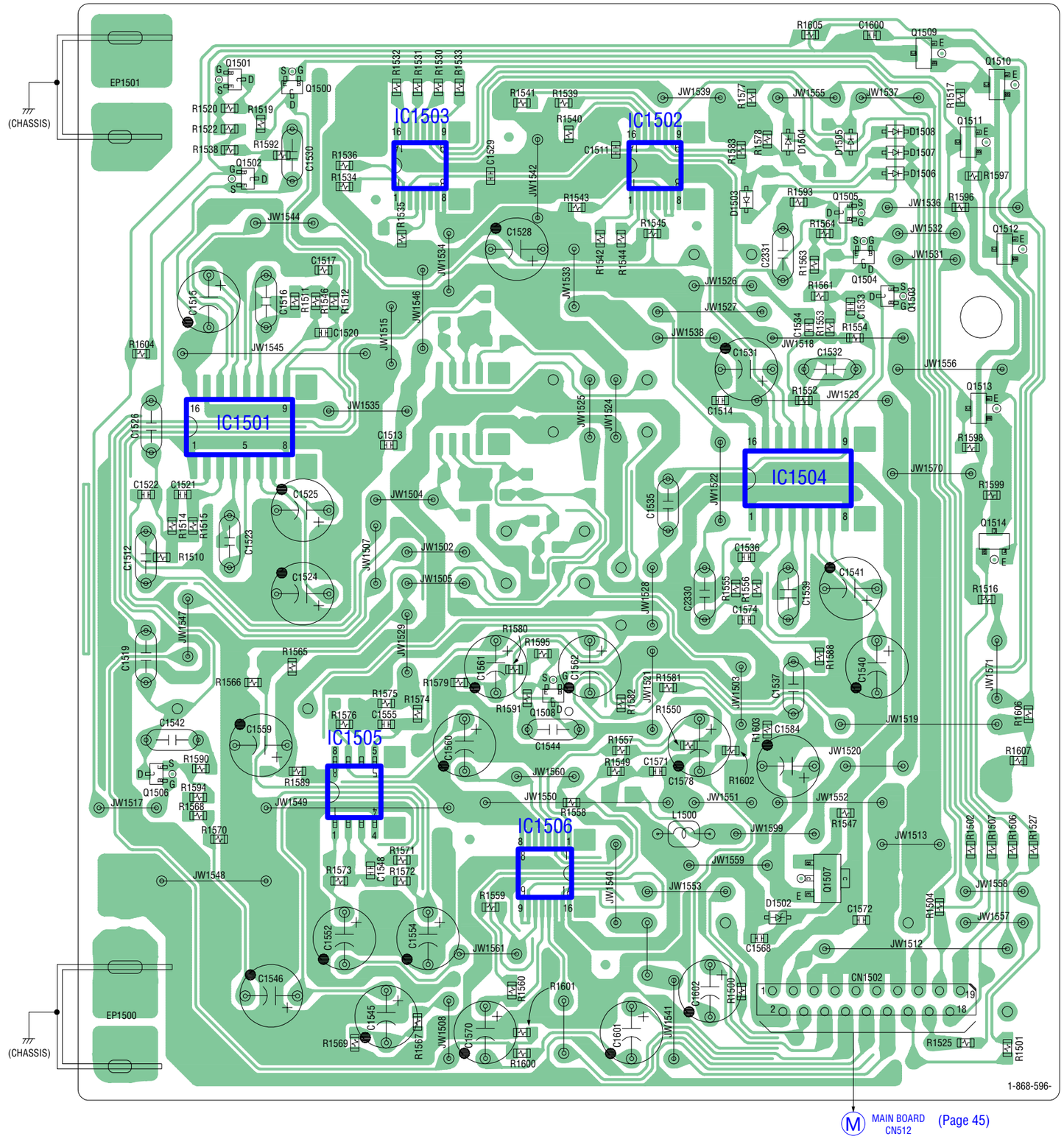
• See page 29 for Circuit Boards Location.

: Uses unleaded solder.

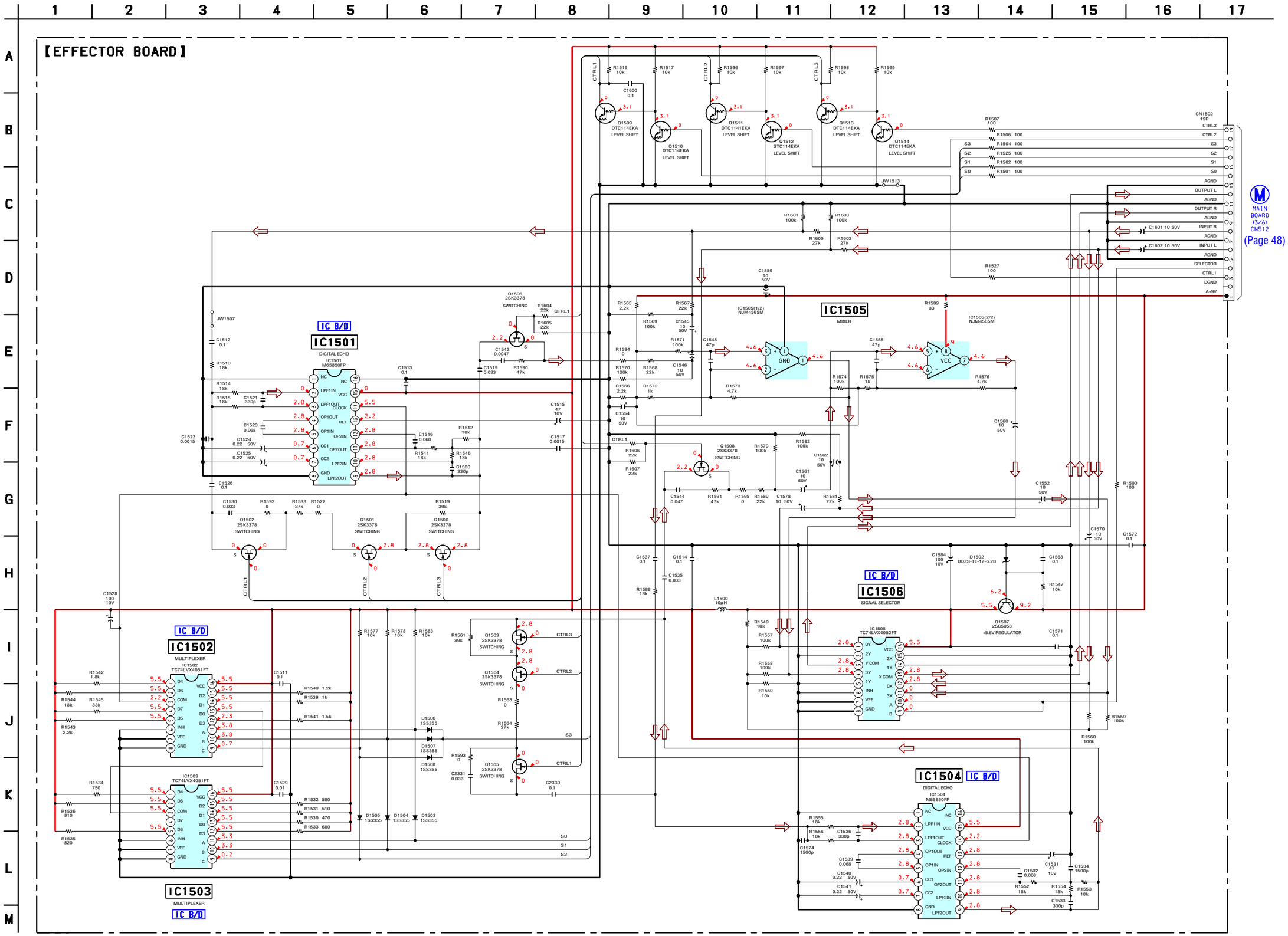
• **Semiconductor Location**

Ref. No.	Location
D1502	F-5
D1503	B-5
D1504	B-5
D1505	B-6
D1506	B-6
D1507	B-6
D1508	B-6
IC1501	C-2
IC1502	B-4
IC1503	B-3
IC1504	D-5
IC1505	F-3
IC1506	F-4
Q1500	A-2
Q1501	A-2
Q1502	B-2
Q1503	C-6
Q1504	B-6
Q1505	B-6
Q1506	E-2
Q1507	F-5
Q1508	E-4
Q1509	A-6
Q1510	A-6
Q1511	B-6
Q1512	B-7
Q1513	C-6
Q1514	D-6

【EFFECTOR BOARD】

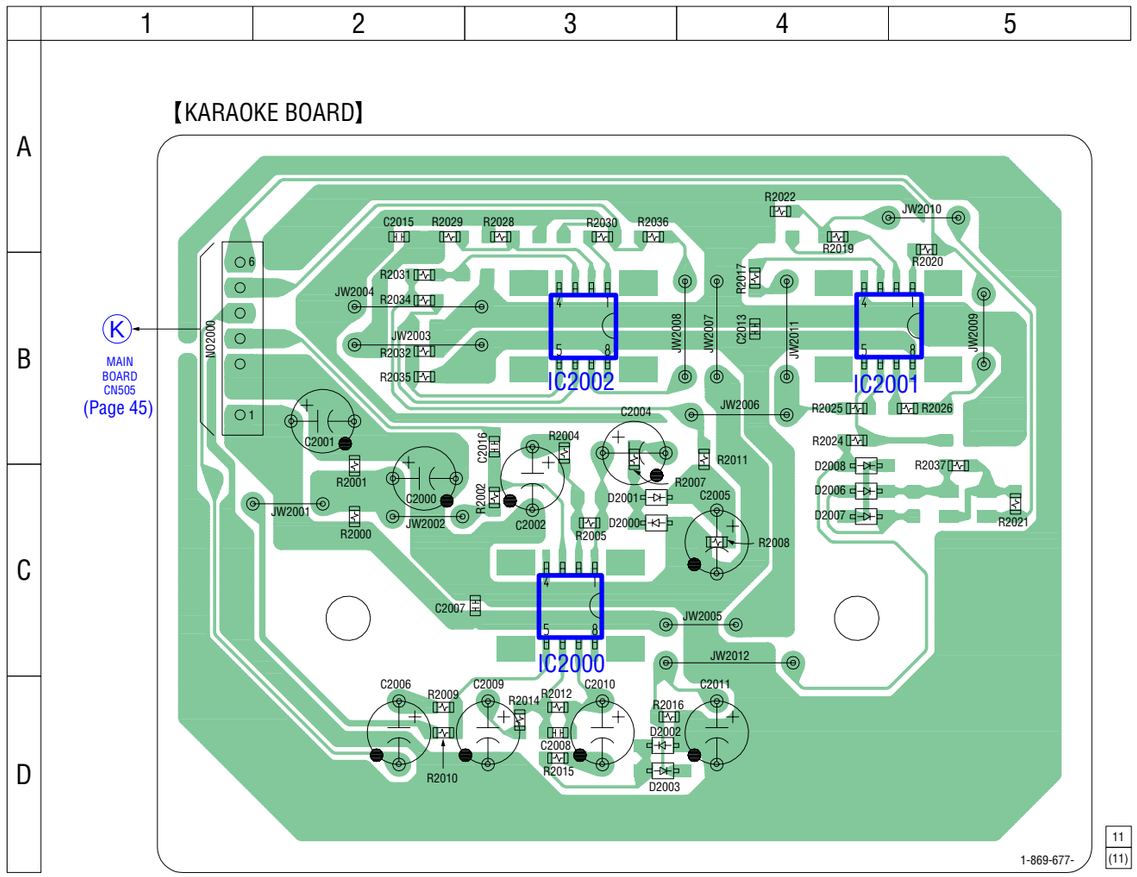


7-20. SCHEMATIC DIAGRAM – EFFECTOR Board – • See page 67 for IC Block Diagrams.



7-21. PRINTED WIRING BOARD – KARAOKE Board –

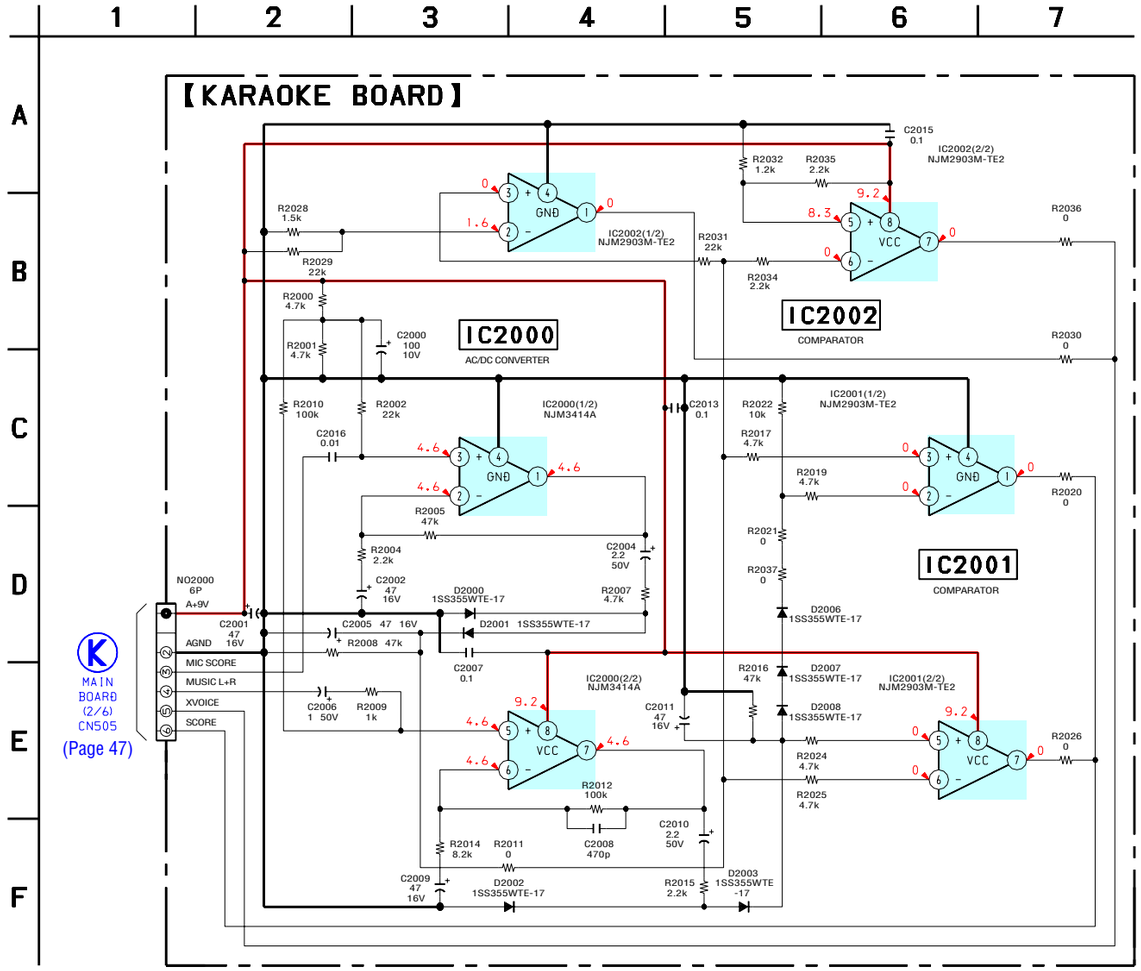
• See page 29 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

Ref. No.	Location
D2000	C-3
D2001	C-3
D2002	D-3
D2003	D-3
D2006	C-4
D2007	C-4
D2008	C-4
IC2000	C-3
IC2001	B-4
IC2002	B-3

7-22. SCHEMATIC DIAGRAM – KARAOKE Board –



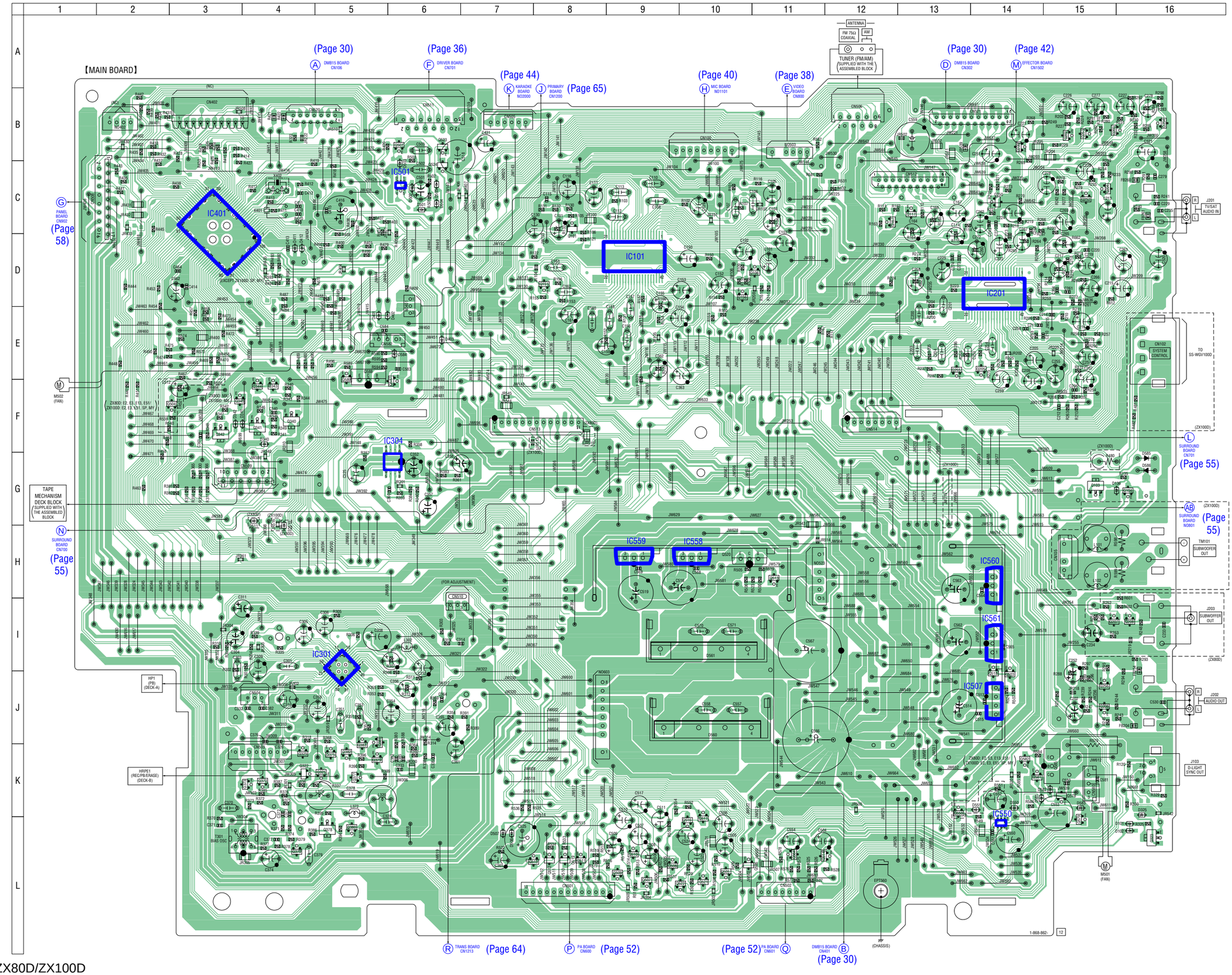
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	L-16	D507	L-7	IC401	C-3	Q202	B-15	Q341	F-4	Q504	F-3	Q522	L-10
D102	L-16	D510	H-4	IC501	C-6	Q203	B-15	Q342	F-3	Q505	L-10	Q523	B-6
D136	G-16	D511	G-4	IC507	J-14	Q204	C-15	Q343	F-4	Q506	L-10	Q524	C-6
D325	K-16	D550	K-14	IC550	L-14	Q205	E-14	Q344	F-4	Q507	L-9	Q550	K-13
D340	F-4	D551	K-14	IC558	H-10	Q206	J-15	Q345	F-3	Q508	L-9	Q564	L-11
D341	F-4	D560	J-10	IC559	H-9	Q207	I-15	Q370	L-4	Q509	L-9	Q578	K-15
D342	F-3	D561	I-10	IC560	H-14	Q208	I-16	Q372	K-4	Q510	L-9	Q579	L-15
D401	E-5	D581	K-14	IC561	I-14	Q250	C-14	Q373	K-4	Q511	L-8	Q581	K-14
D402	E-5	D582	K-15			Q252	C-15	Q375	K-5	Q512	L-8	Q582	K-14
D403	E-6	D583	K-15	Q101	C-8	Q253	B-15	Q377	K-5	Q513	H-11	Q585	K-15
D411	D-4	D584	E-6	Q103	G-15	Q254	B-16	Q378	L-5	Q514	L-11	Q587	F-6
D412	D-4	D585	G-16	Q104	G-16	Q255	E-13	Q379	K-5	Q515	L-8	Q588	E-5
D501	C-6	D586	G-16	Q106	D-11	Q256	J-15	Q380	L-5	Q516	L-10	Q589	F-5
D502	C-6			Q117	C-13	Q321	K-5	Q381	J-5	Q517	L-10		
D503	C-6	IC101	D-9	Q151	D-8	Q322	K-4	Q382	K-5	Q518	J-14		
D504	C-6	IC201	D-14	Q156	D-10	Q323	L-16	Q383	K-5	Q519	L-8		
D505	C-6	IC301	I-5	Q167	C-12	Q325	K-4	Q501	B-6	Q520	H-10		
D506	L-7	IC304	G-6	Q200	B-14	Q340	F-4	Q503	J-14	Q521	L-10		

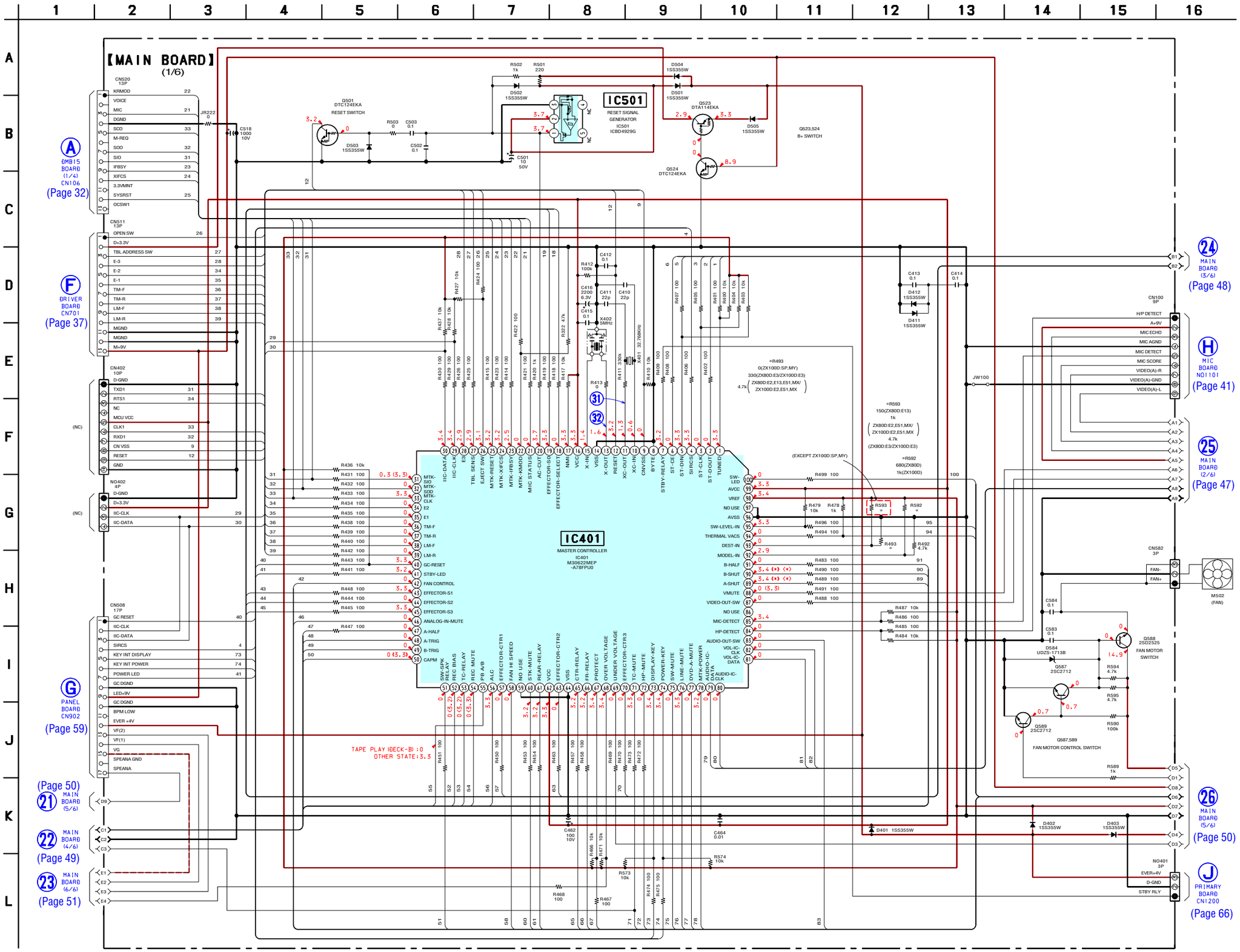
7-23. PRINTED WIRING BOARD – MAIN Board –

• See page 29 for Circuit Boards Location. • See page 44 for Semiconductor Location.

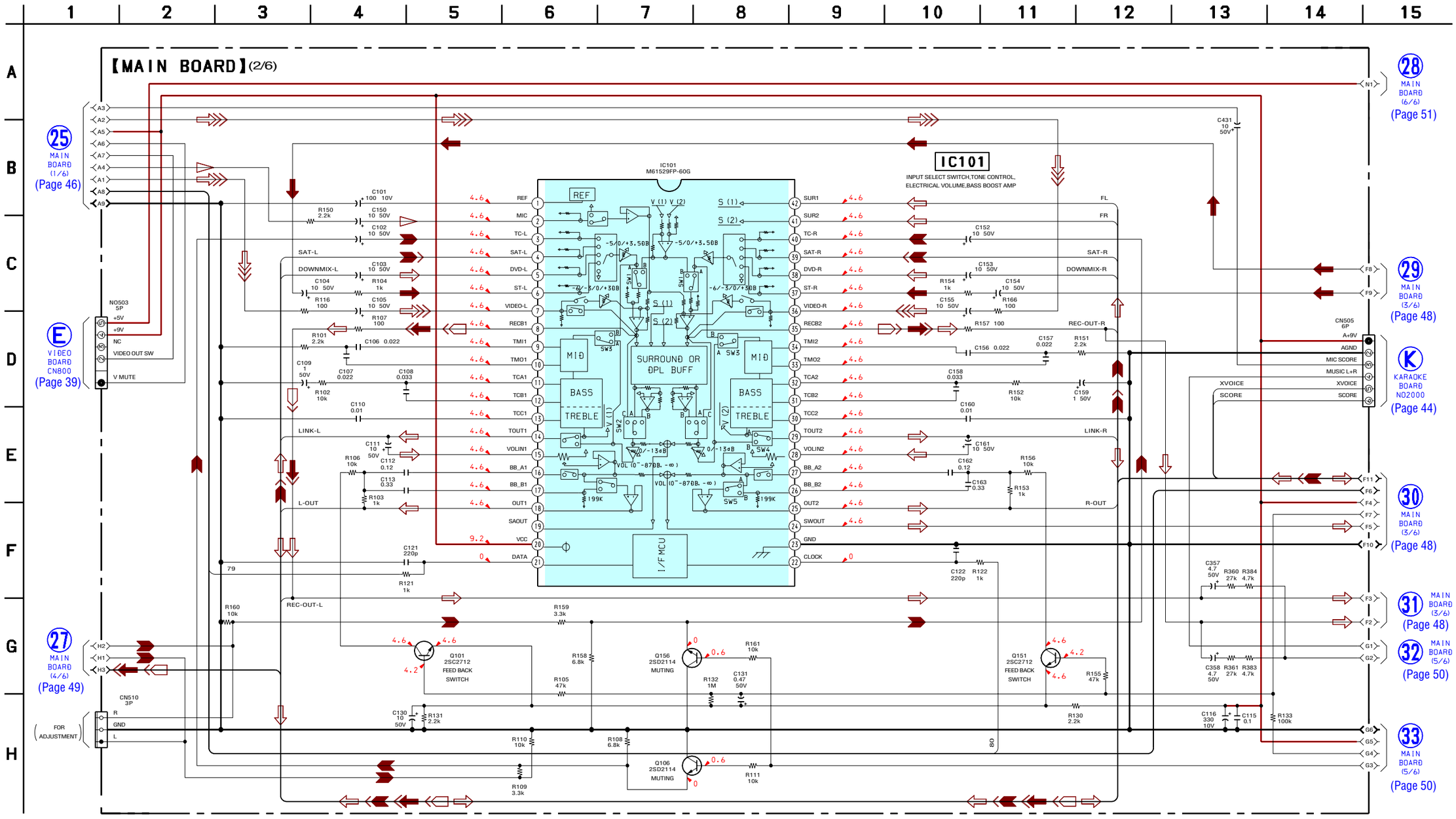
: Uses unleaded solder.



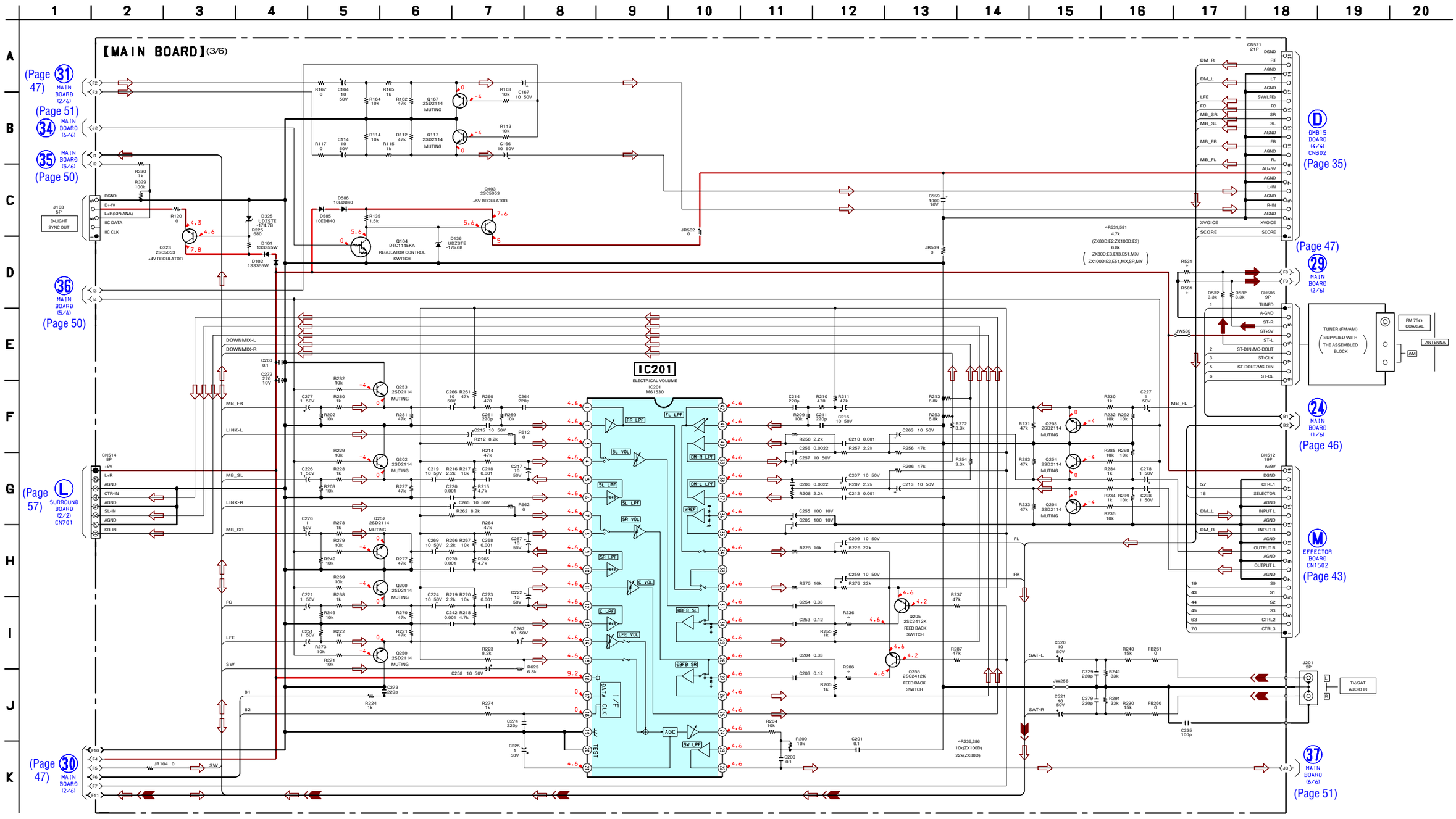
7-24. SCHEMATIC DIAGRAM – MAIN Board (1/6) – • See page 54 for Waveforms. • See page 71 for IC Pin Function Description.



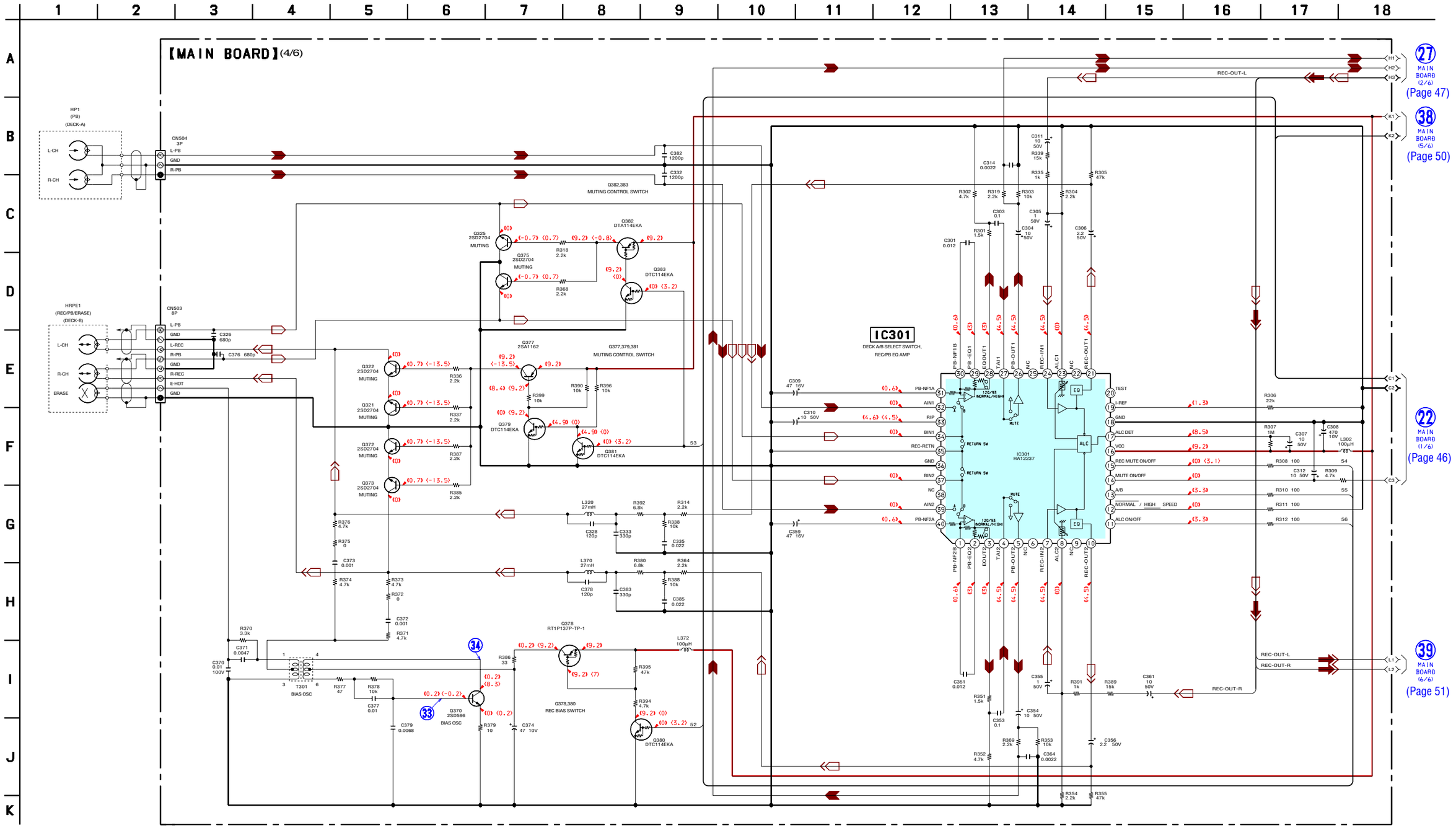
7-25. SCHEMATIC DIAGRAM – MAIN Board (2/6) –



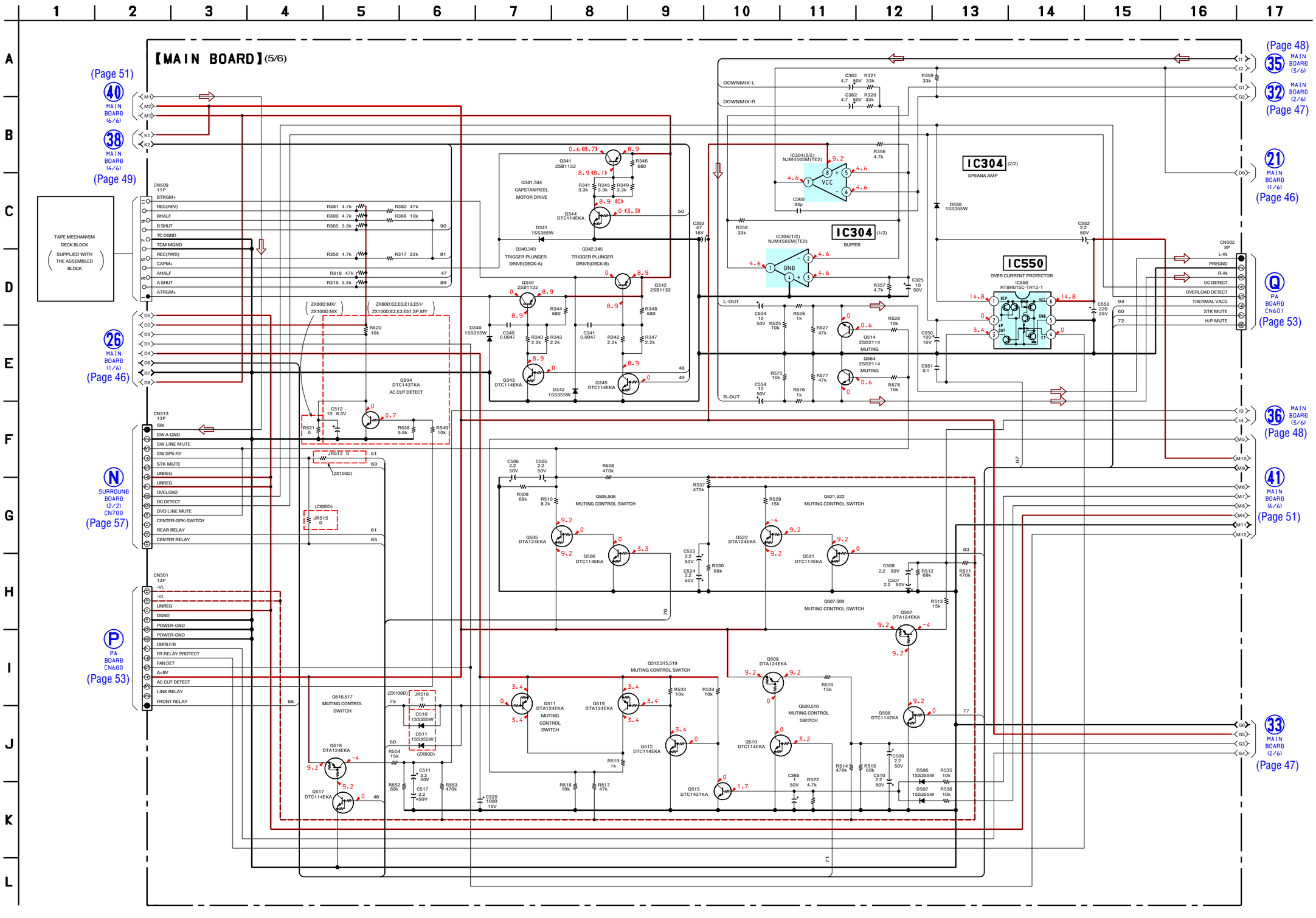
7-26. SCHEMATIC DIAGRAM – MAIN Board (3/6) –



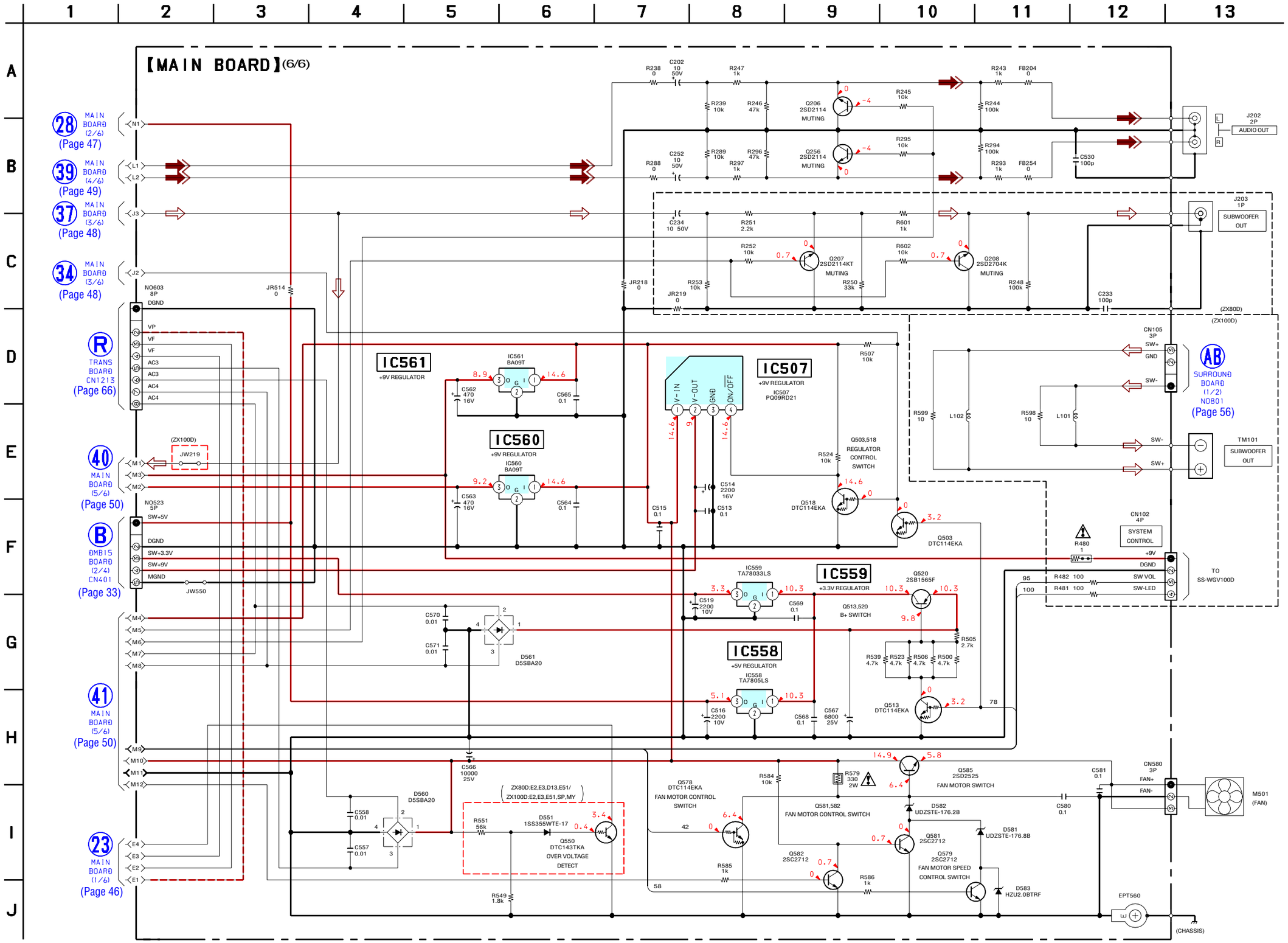
7-27. SCHEMATIC DIAGRAM – MAIN Board (4/6) – • See page 54 for Waveforms.



7-28. SCHEMATIC DIAGRAM – MAIN Board (5/6) –

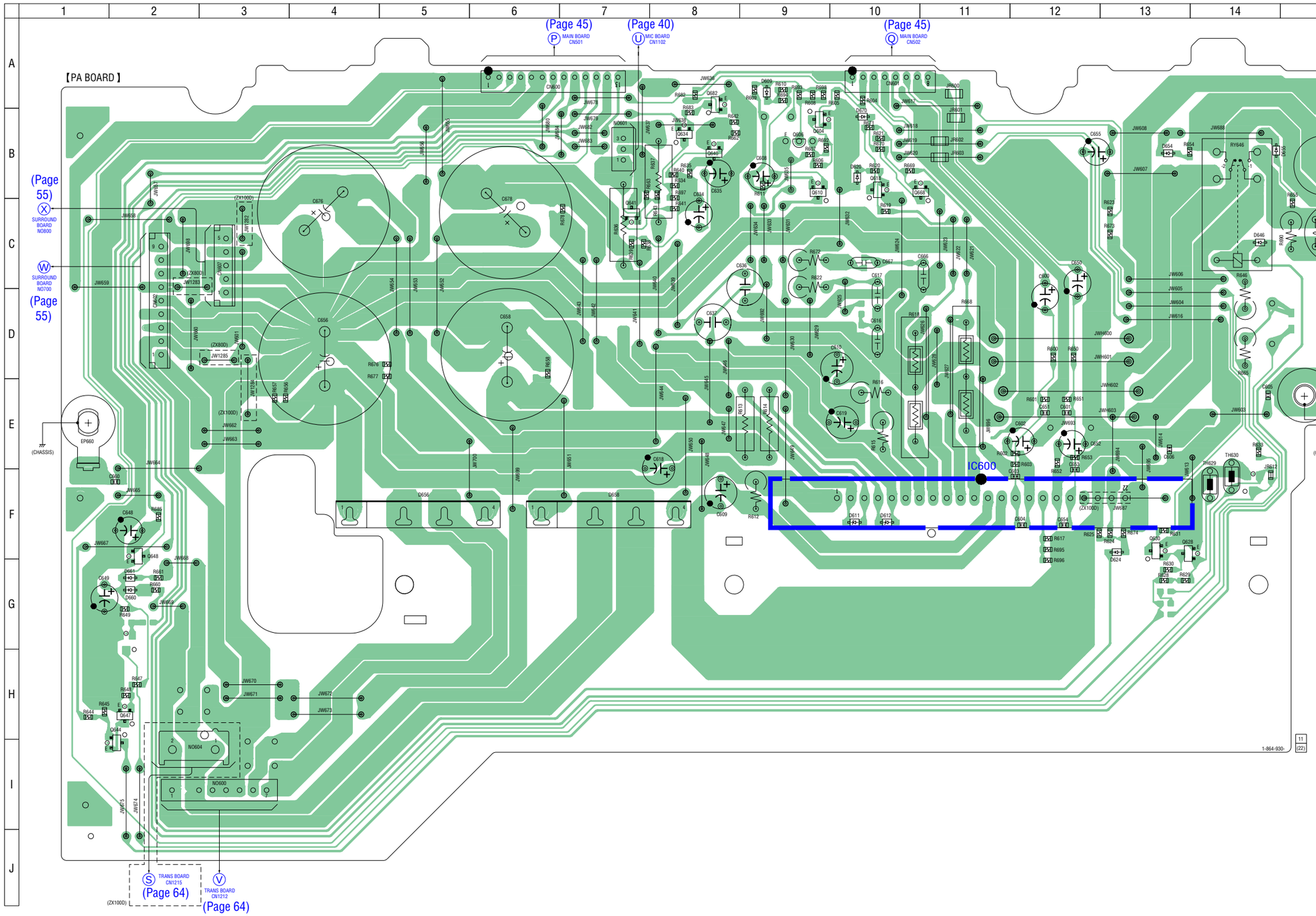


7-29. SCHEMATIC DIAGRAM – MAIN Board (6/6) –



7-30. PRINTED WIRING BOARD – PA Board –

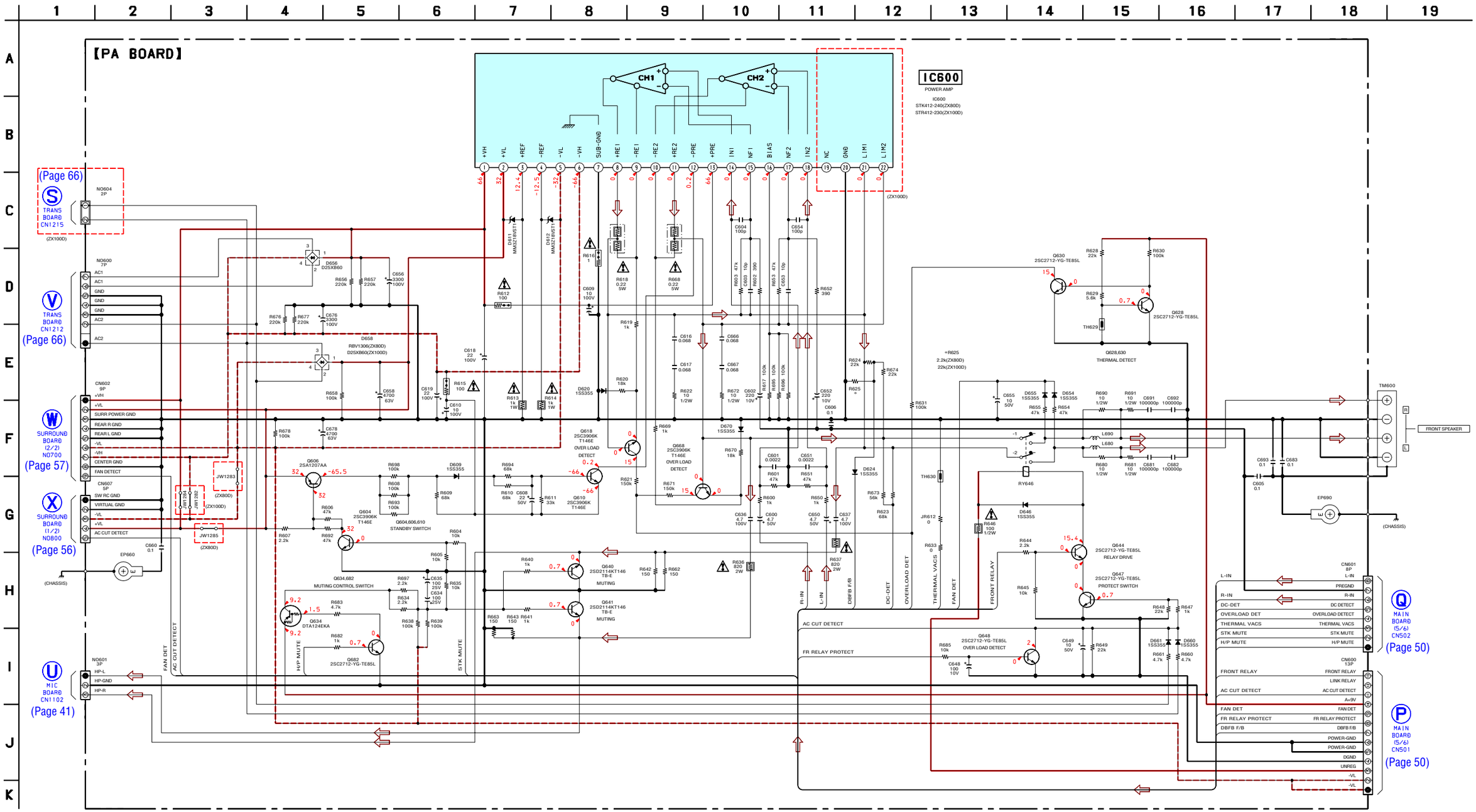
• See page 29 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

Ref. No.	Location
D609	A-9
D611	F-10
D612	F-10
D620	B-10
D624	F-13
D646	C-14
D654	B-13
D655	B-14
D656	F-5
D658	F-7
D660	G-2
D661	G-2
D670	B-10
IC600	F-11
Q604	B-9
Q606	B-9
Q610	B-9
Q618	B-10
Q628	F-13
Q630	F-13
Q634	B-8
Q640	B-8
Q641	C-7
Q644	I-2
Q647	H-2
Q648	F-2
Q668	B-11
Q682	A-8

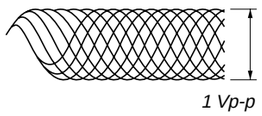
7-31. SCHEMATIC DIAGRAM – PA Board –



- **Waveforms**

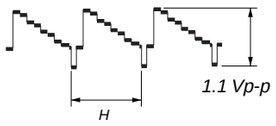
– DMB15 Board –

① IC102 ⑥ (DVDRFIP) (DVD play mode)



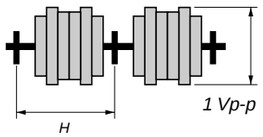
500 mV/DIV, 200 ns/DIV

② IC102 ⑭ (YUV1) (Color bar)



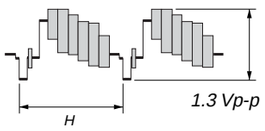
500 mV/DIV, 20 µs/DIV

③ IC102 ⑯ (YUV2) (Color bar)



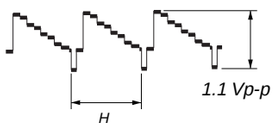
500 mV/DIV, 20 µs/DIV

④ IC102 ⑲ (YUV3) (Color bar)



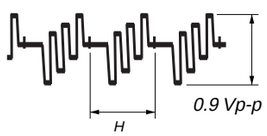
500 mV/DIV, 20 µs/DIV

⑤ IC102 ⑳ (YUV4) (Color bar)



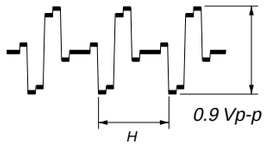
500 mV/DIV, 20 µs/DIV

⑥ IC102 ⑫ (YUV5) (Color bar)



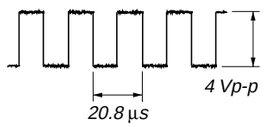
500 mV/DIV, 20 µs/DIV

⑦ IC102 ⑬ (YUV6) (Color bar)



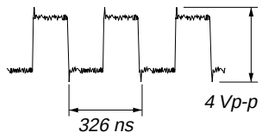
500 mV/DIV, 20 µs/DIV

⑧ IC102 ㉑ (ALRCK)



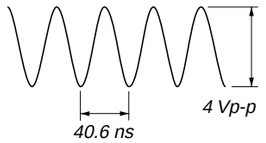
2 V/DIV, 10 µs/DIV

⑨ IC102 ㉔ (ABCK)



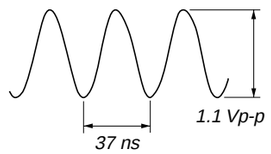
2 V/DIV, 100 ns/DIV

⑩ IC102 ㉕ (ACLK)



2 V/DIV, 20 ns/DIV

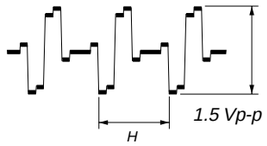
⑪ IC102 ㉘ (XTALO)



500 mV/DIV, 10 ns/DIV

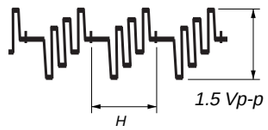
– VIDEO Board –

㉑ IC801 ⑯ (CROUT) (Color bar)



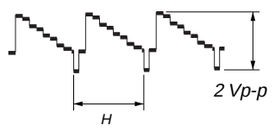
500 mV/DIV, 20 µs/DIV

㉒ IC801 ⑱ (CBOUT) (Color bar)



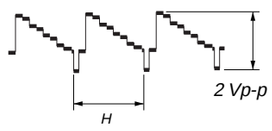
500 mV/DIV, 20 µs/DIV

㉓ IC801 ⑳ (CYOUT) (Color bar)



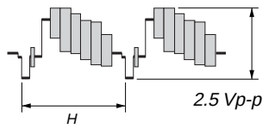
1 V/DIV, 20 µs/DIV

㉔ IC801 ㉑ (YOUT) (Color bar)



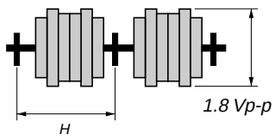
1 V/DIV, 20 µs/DIV

㉕ IC801 ㉓ (CVBSOUT) (Color bar)



1 V/DIV, 20 µs/DIV

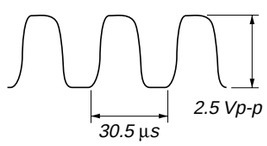
㉖ IC801 ㉖ (C OUT) (Color bar)



1 V/DIV, 20 µs/DIV

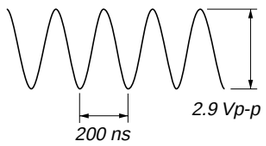
– MAIN Board –

㉛ IC401 ⑪ (XC-OUT)



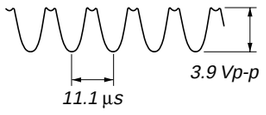
1 V/DIV, 10 µs/DIV

㉜ IC401 ⑬ (X-OUT)



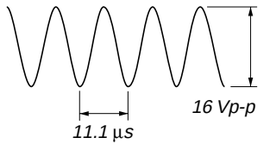
1 V/DIV, 100 ns/DIV

㉝ Q370 (Base) (REC mode)



2 V/DIV, 5 µs/DIV

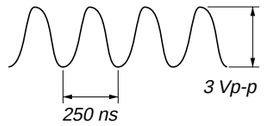
㉞ Q370 (Collector) (REC mode)



5 V/DIV, 5 µs/DIV

– PANEL Board –

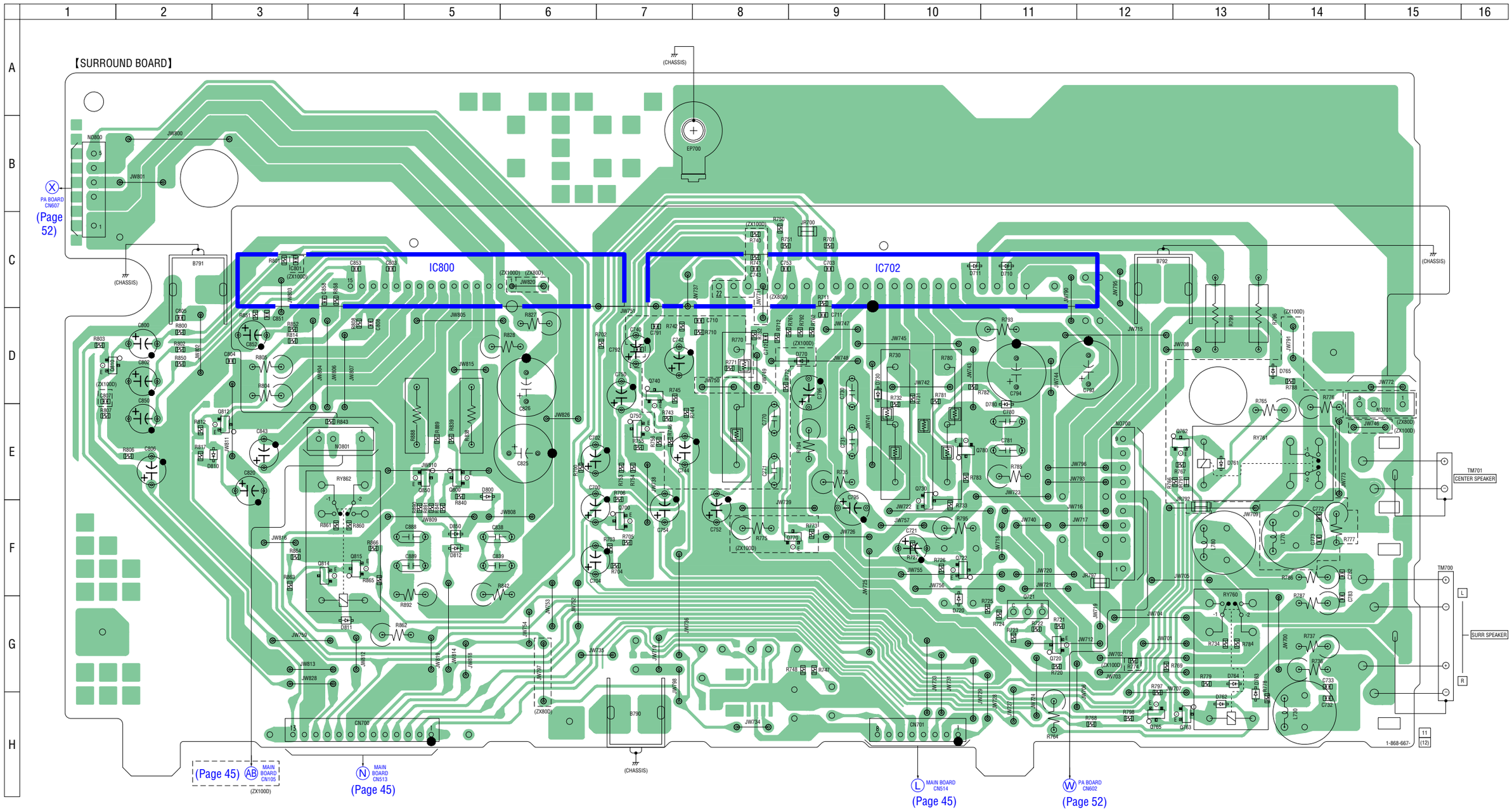
㊶ IC902 ㉜ (XOUT)



1 V/DIV, 100 ns/DIV

7-32. PRINTED WIRING BOARD – SURROUND Board –

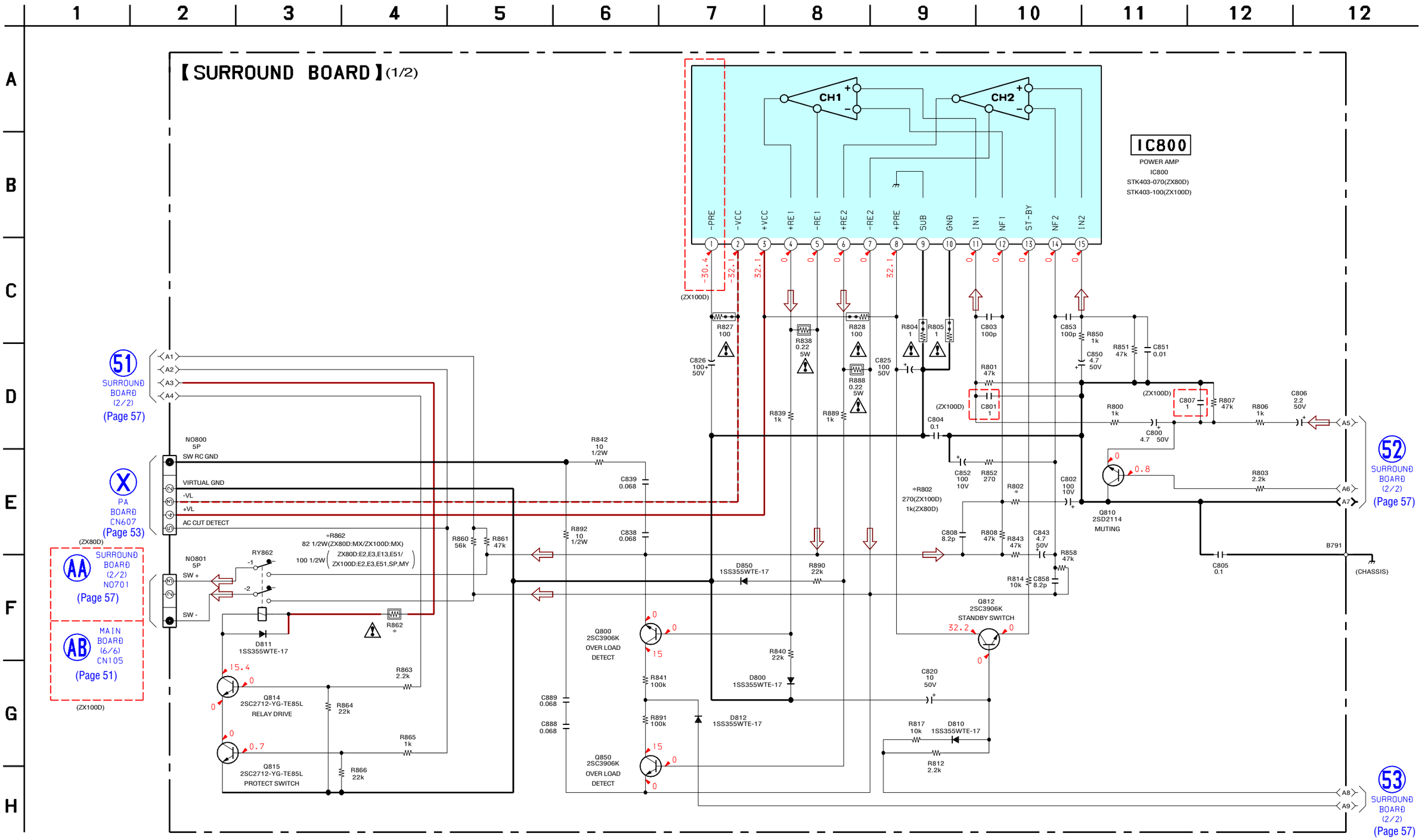
• See page 29 for Circuit Boards Location. : Uses unleaded solder.



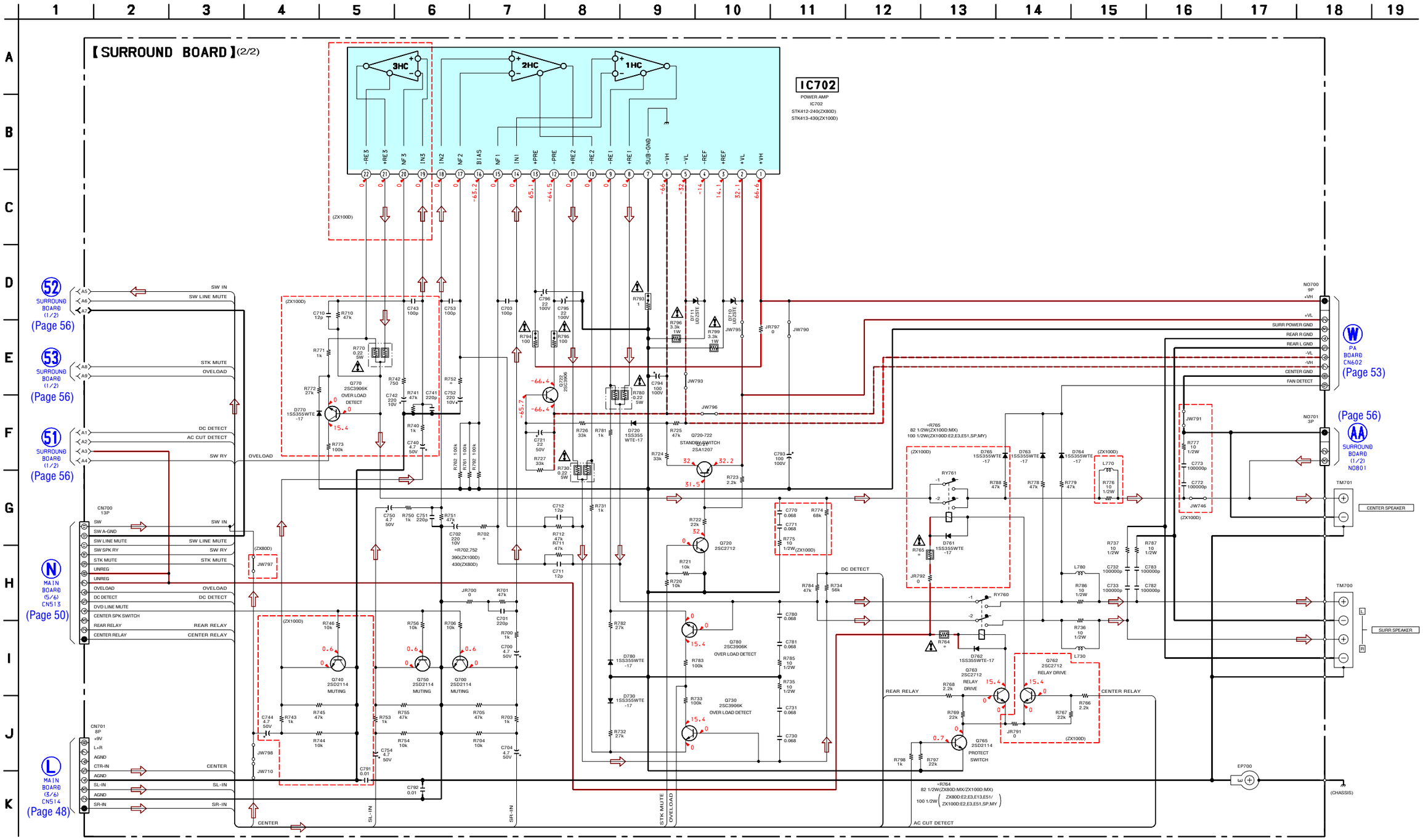
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D710	C-11	D811	G-4	Q750	E-7
D711	C-10	D812	F-5	Q762	E-13
D720	G-10	D850	F-5	Q763	H-13
D730	D-9			Q765	H-12
D761	E-13	IC702	C-9	Q770	F-9
D762	H-13	IC800	C-5	Q780	E-10
D763	H-13			Q800	E-5
D764	G-13	Q700	F-7	Q810	D-1
D765	D-14	Q720	G-11	Q812	E-3
D770	D-9	Q721	G-11	Q814	F-4
D780	E-11	Q722	F-10	Q815	F-4
D800	E-5	Q730	F-10	Q850	E-5
D810	E-2	Q740	D-7		

7-33. SCHEMATIC DIAGRAM – SURROUND Board (1/2) –



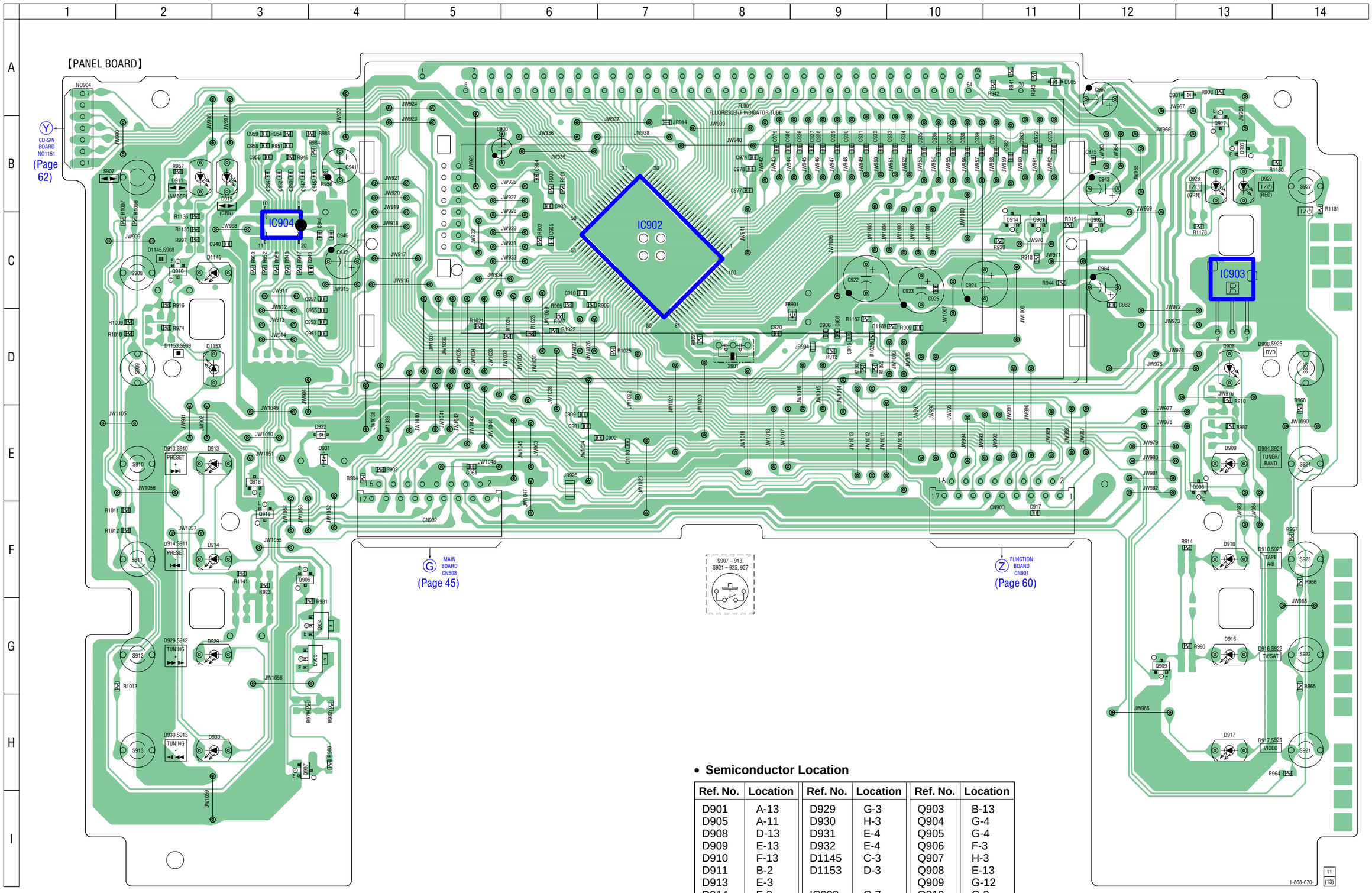
7-34. SCHEMATIC DIAGRAM – SURROUND Board (2/2) –



7-35. PRINTED WIRING BOARD – PANEL Board –

• See page 29 for Circuit Boards Location.

: Uses unleaded solder.

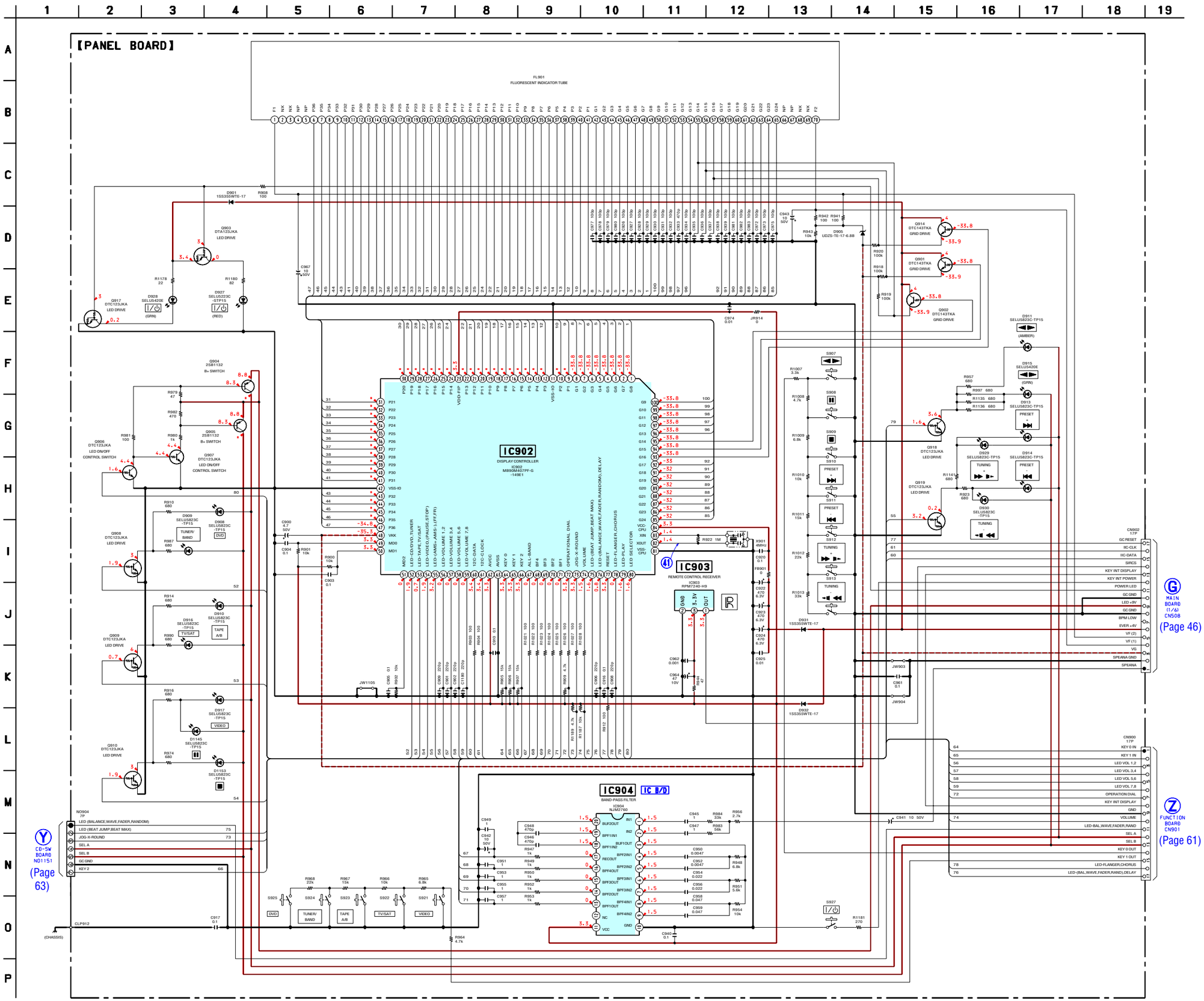


• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D901	A-13	D929	G-3	Q903	B-13
D905	A-11	D930	H-3	Q904	G-4
D908	D-13	D931	E-4	Q905	G-4
D909	E-13	D932	E-4	Q906	F-3
D910	F-13	D1145	C-3	Q907	H-3
D911	B-2	D1153	D-3	Q908	E-13
D913	E-3			Q909	G-12
D914	F-3	IC902	C-7	Q910	C-2
D915	B-3	IC903	C-13	Q914	C-11
D916	G-13	IC904	C-3	Q917	B-13
D917	H-13			Q918	E-3
D927	B-13	Q901	C-11	Q919	F-3
D928	B-13	Q902	C-12		

7-36. SCHEMATIC DIAGRAM – PANEL Board –

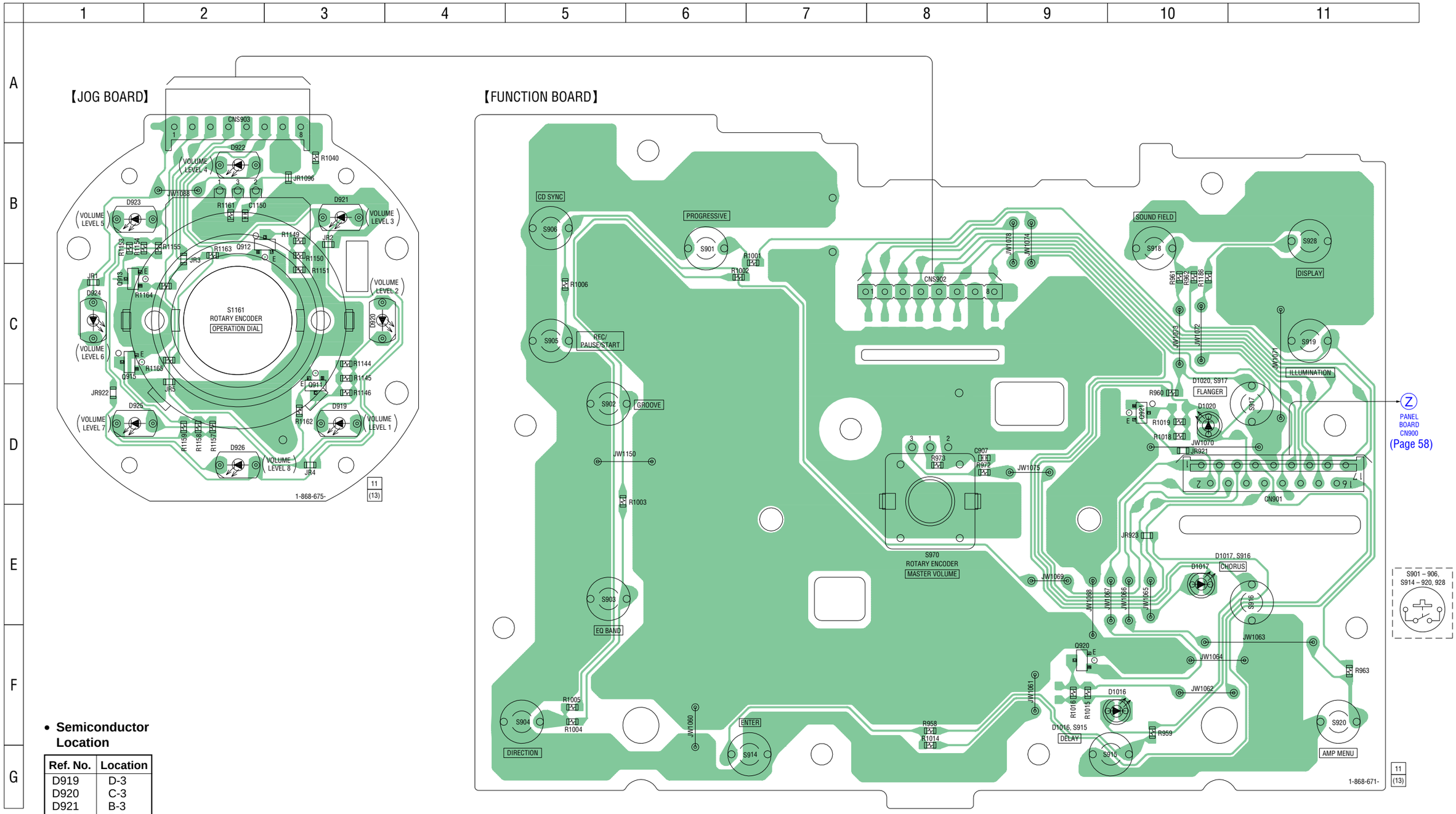
• See page 54 for Waveforms. • See page 67 for IC Block Diagrams. • See page 71 for IC Pin Function Description.



7-37. PRINTED WIRING BOARDS – FRONT KEY Section –

• See page 29 for Circuit Boards Location.

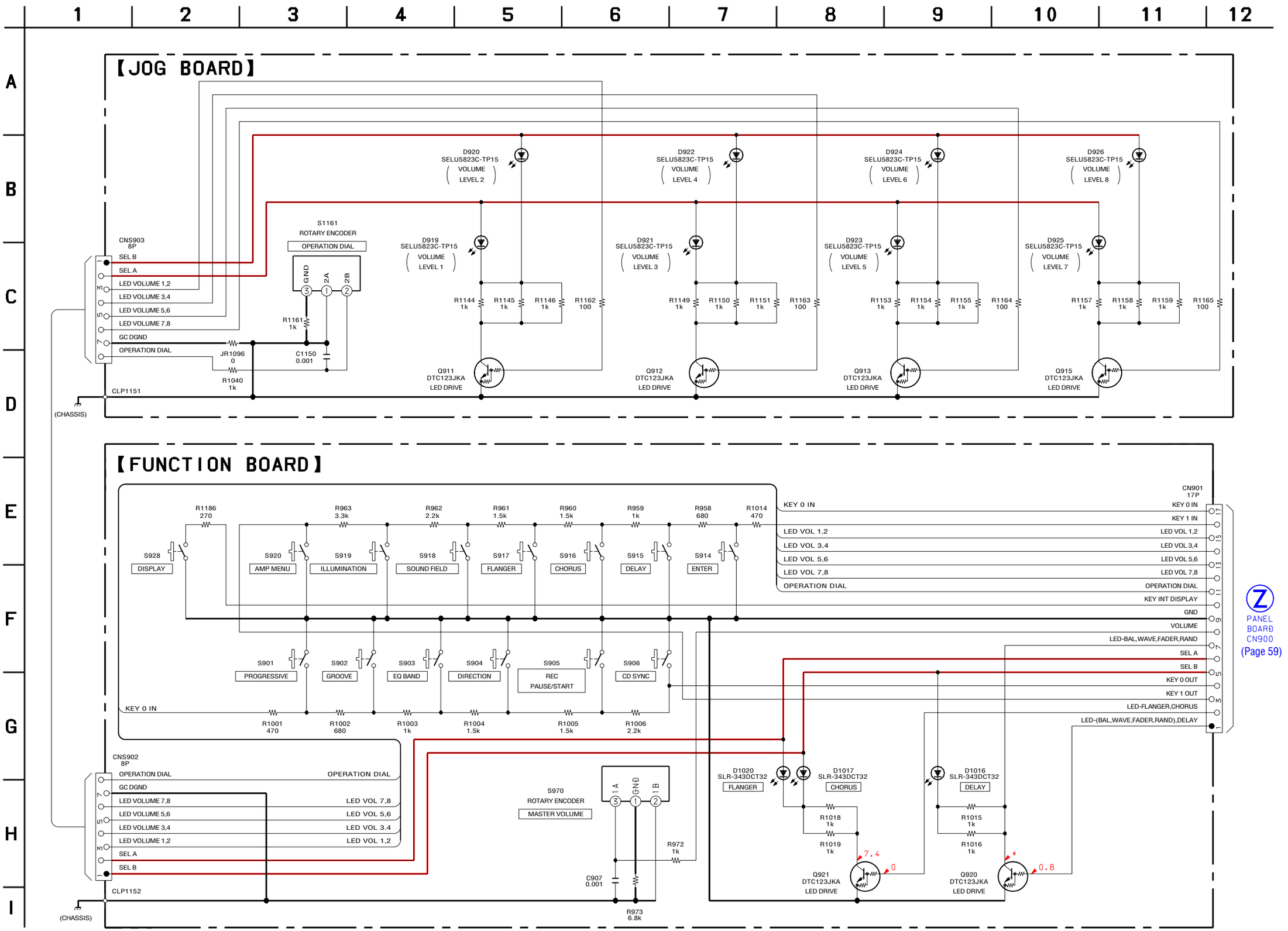
: Uses unleaded solder.



- **Semiconductor Location**

Ref. No.	Location
D919	D-3
D920	C-3
D921	B-3
D922	B-2
D923	B-1
D924	C-1
D925	D-1
D926	D-2
D1016	F-10
D1017	E-10
D1020	D-10
Q911	D-3
Q912	B-3
Q913	C-1
Q915	C-1
Q920	F-9
Q921	D-10

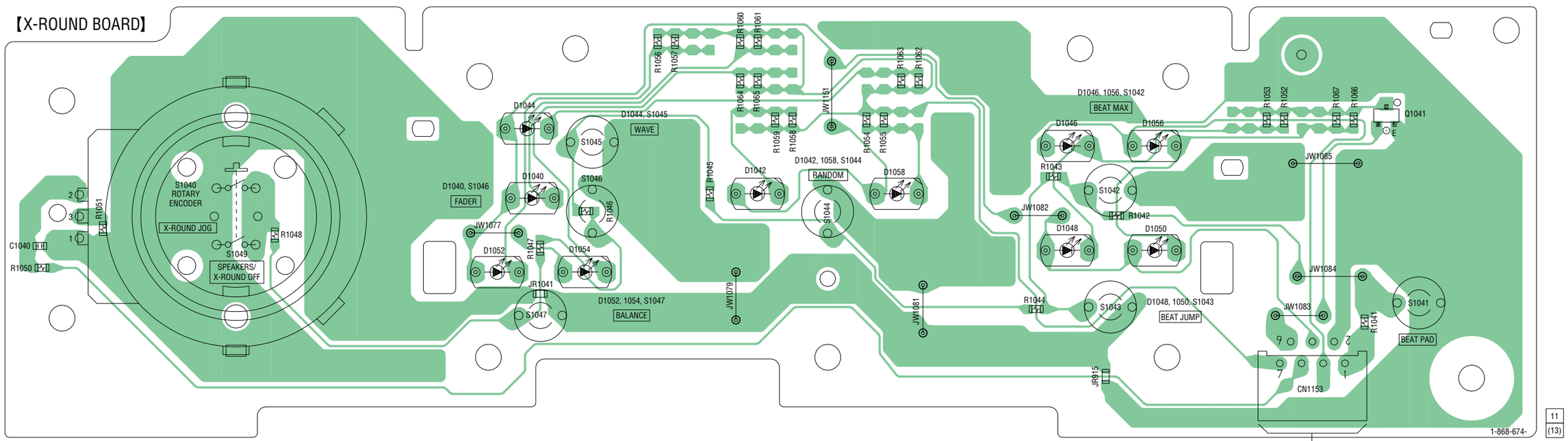
7-38. SCHEMATIC DIAGRAM – FRONT KEY Section –



7-39. PRINTED WIRING BOARDS – TOP KEY Section –

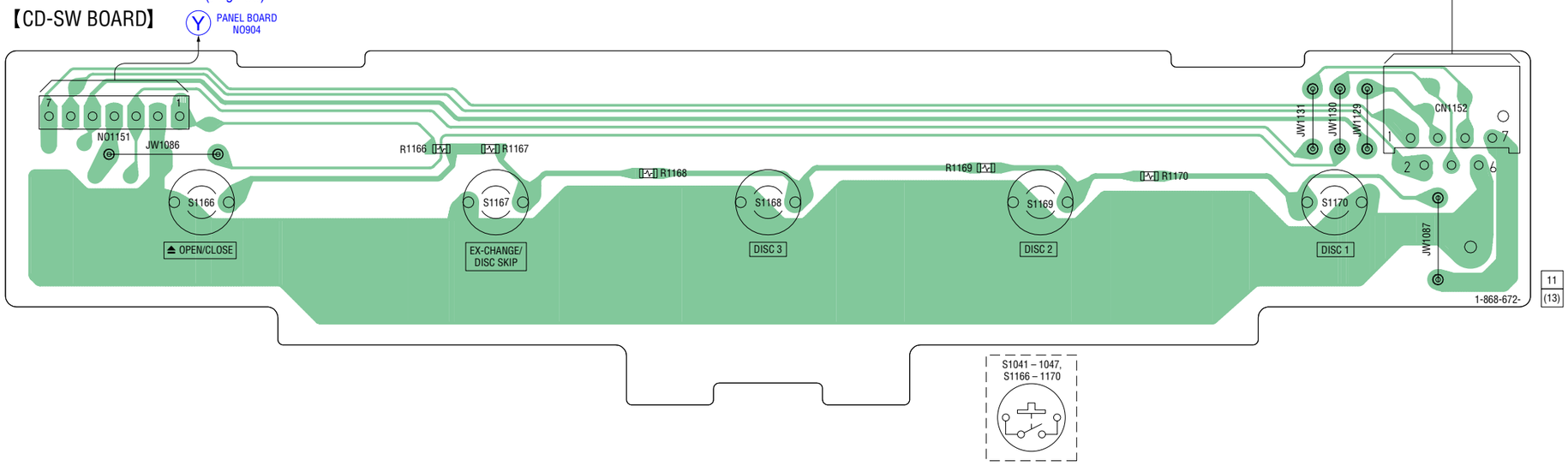
• See page 29 for Circuit Boards Location. : Uses unleaded solder.

【X-ROUND BOARD】



(Page 58)

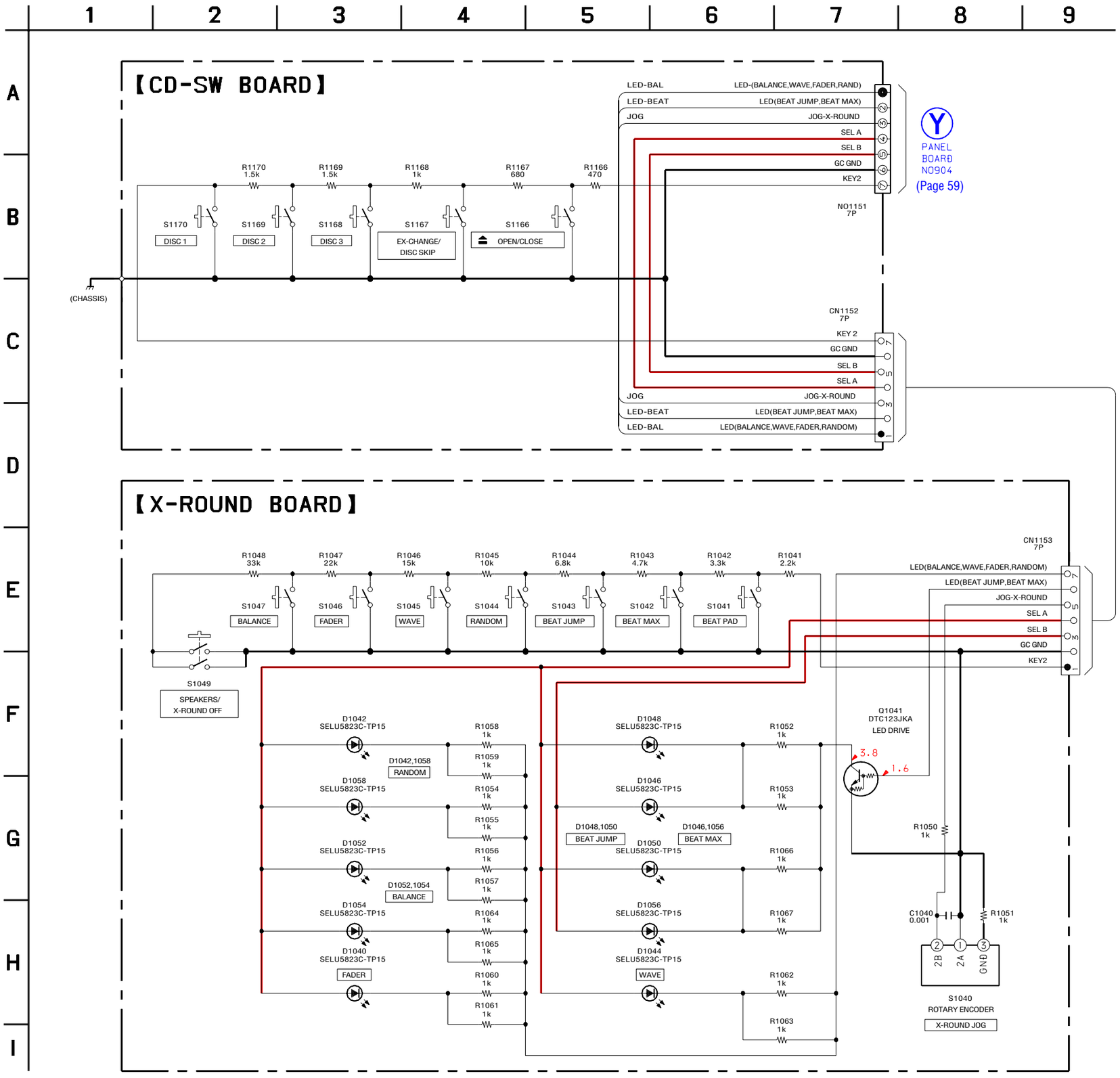
【CD-SW BOARD】



• **Semiconductor Location**

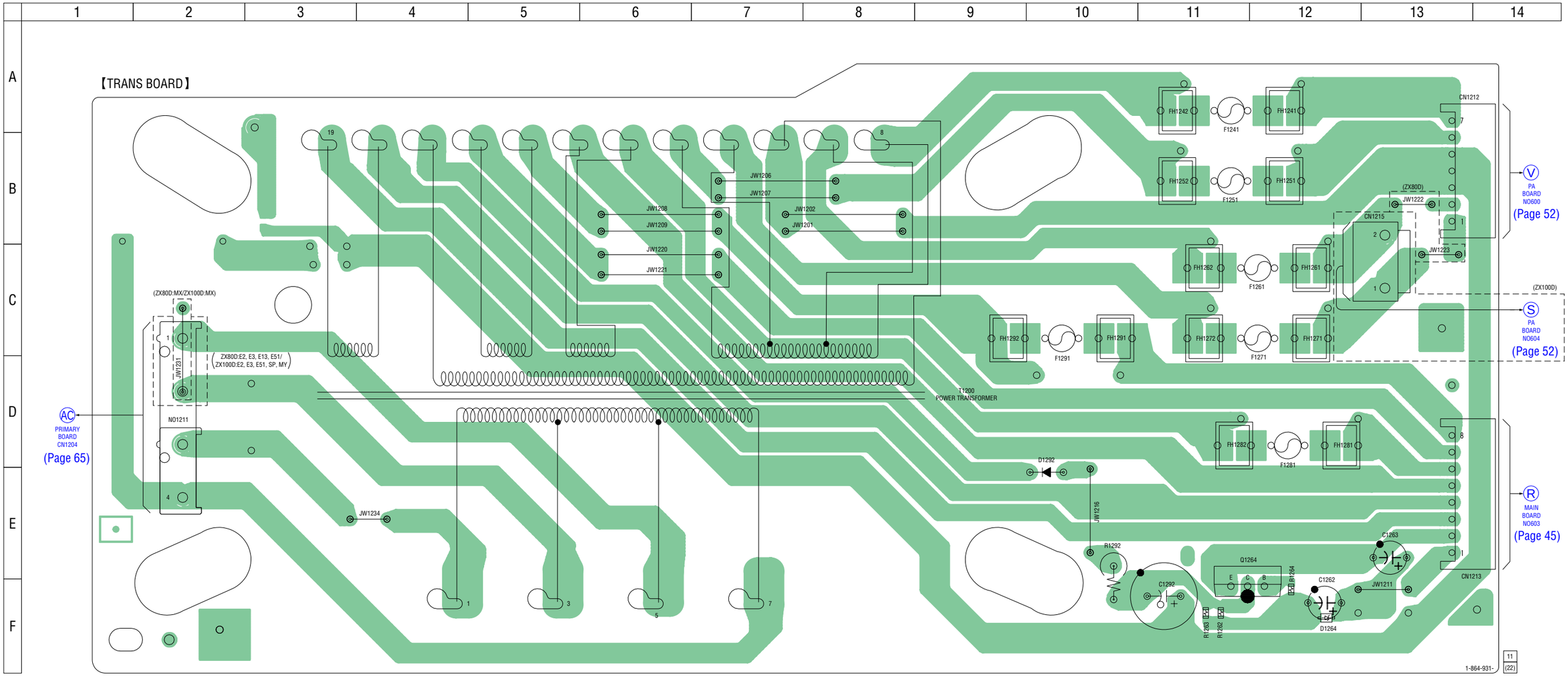
Ref. No.	Location
D1040	B-4
D1042	B-6
D1044	B-4
D1046	B-8
D1048	B-8
D1050	B-9
D1052	C-4
D1054	C-5
D1056	B-9
D1058	B-7
Q1041	B-10

7-40. SCHEMATIC DIAGRAM – TOP KEY Section –



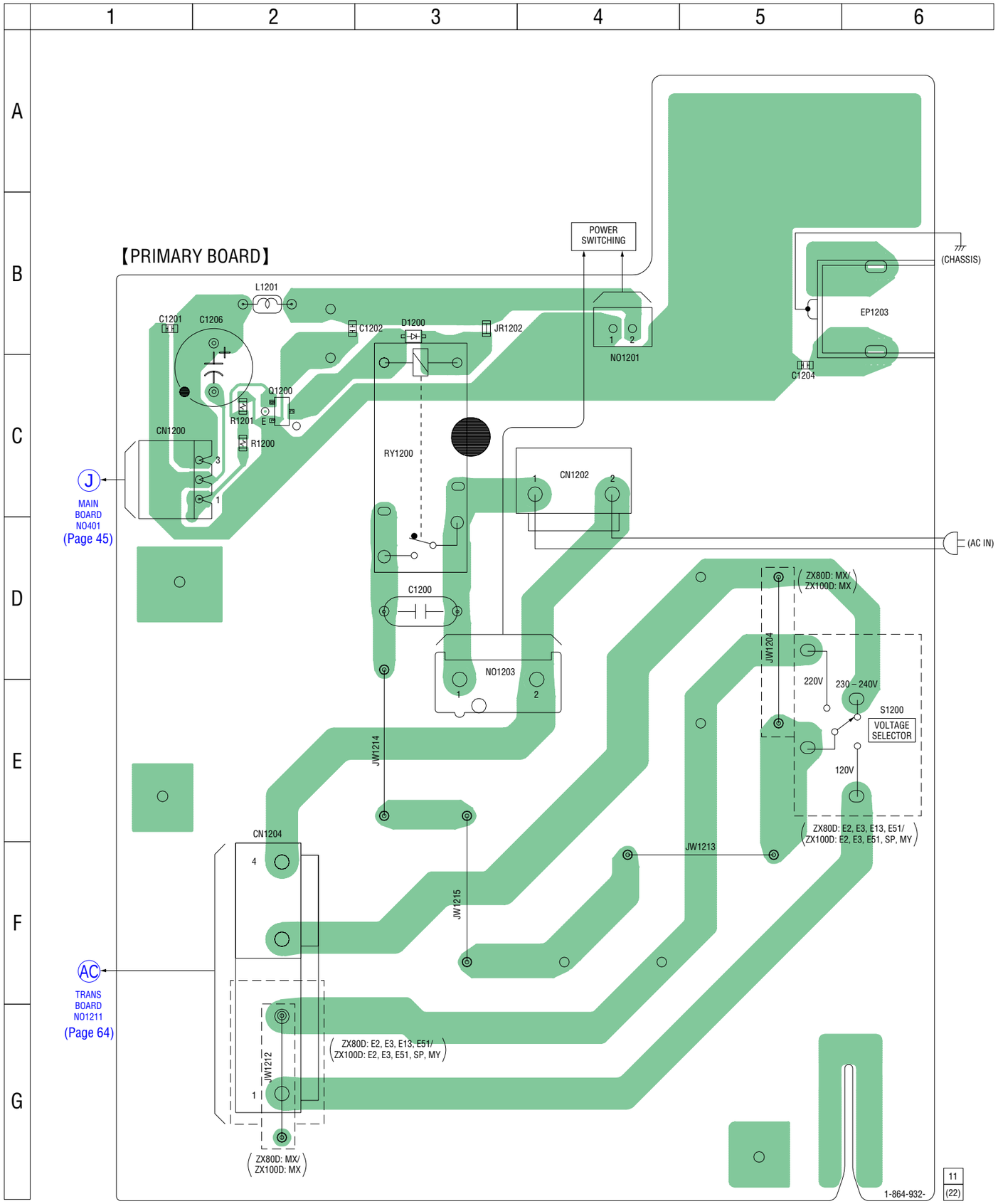
7-41. PRINTED WIRING BOARD – TRANSFORMER Board –

• See page 29 for Circuit Boards Location. : Uses unleaded solder.

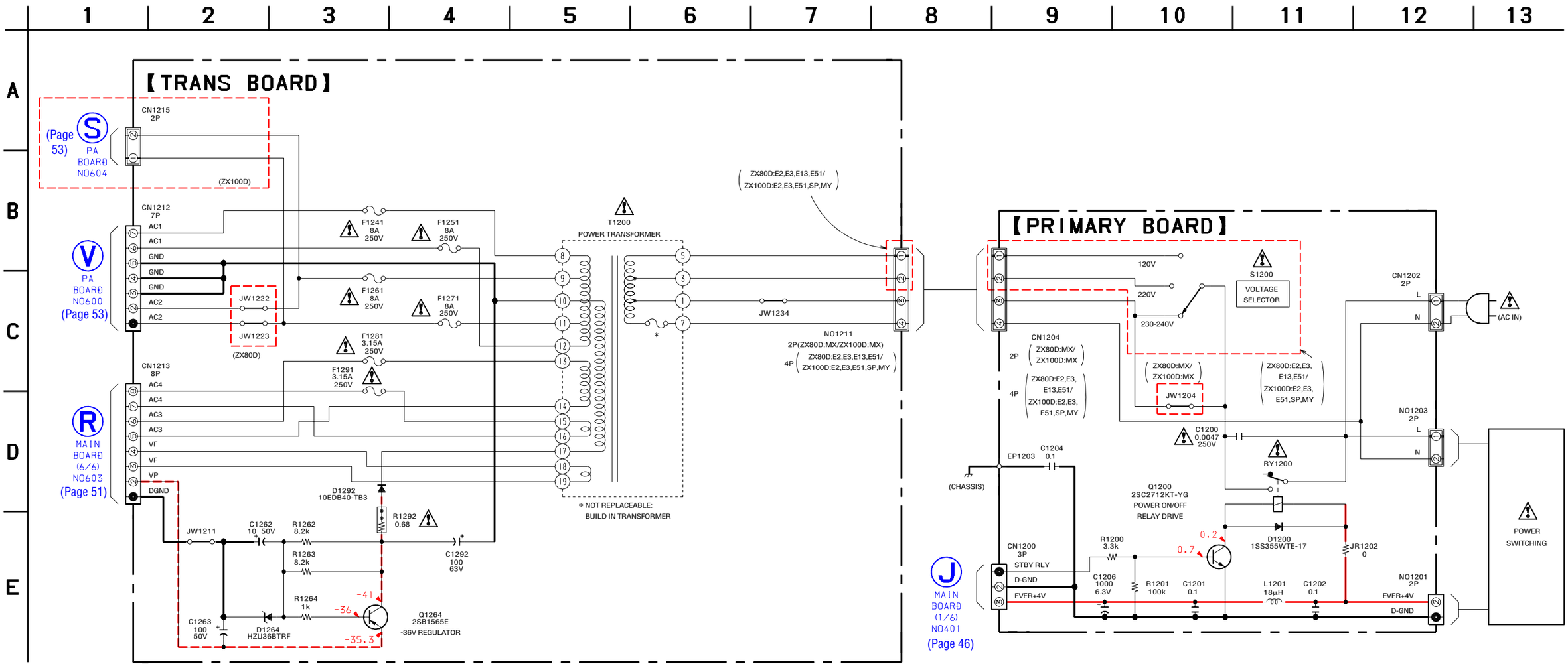


7-42. PRINTED WIRING BOARD – PRIMARY Board –

• See page 29 for Circuit Boards Location. : Uses unleaded solder.



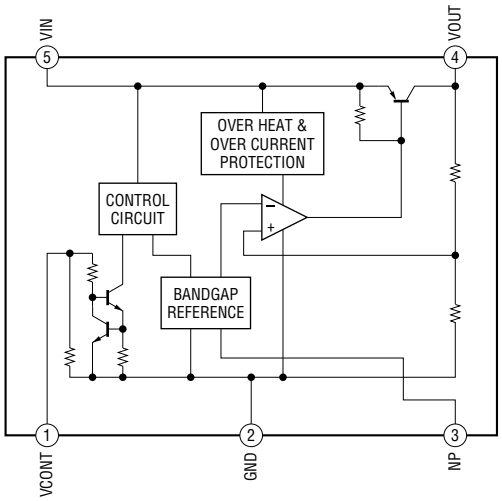
7-43. SCHEMATIC DIAGRAM – POWER SUPPLY Section –



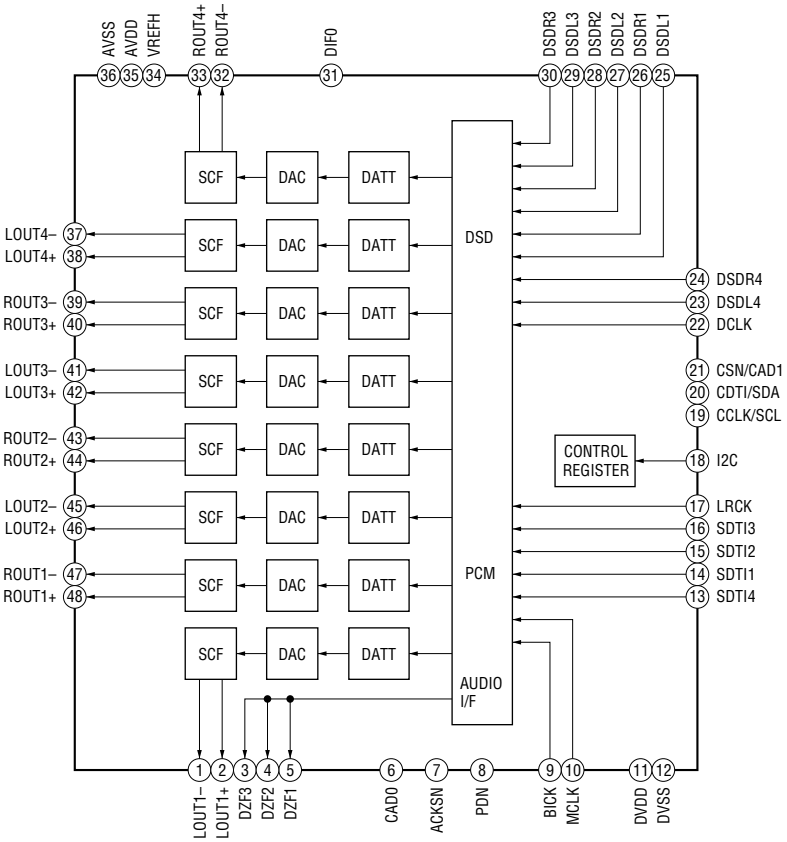
- **IC Block Diagrams**

– DMB15 Board –

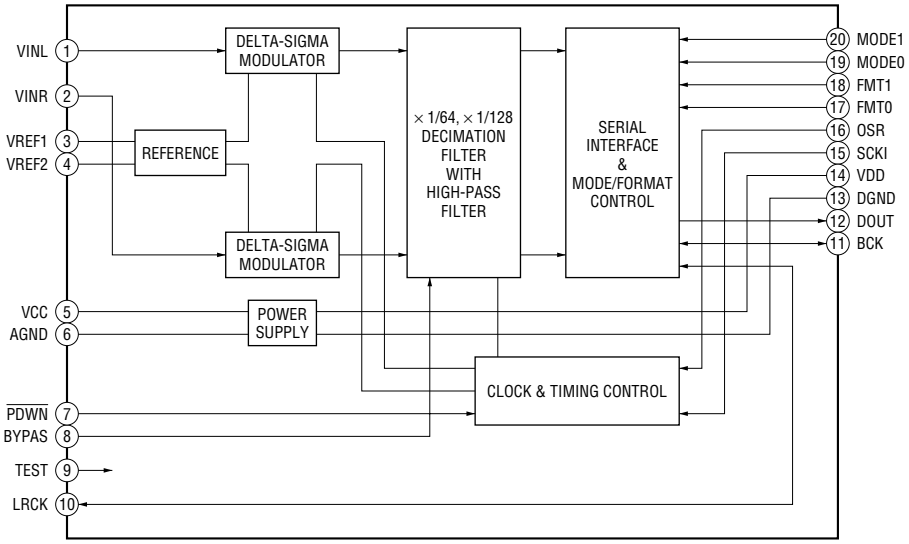
IC105, 107 TK11133CSCL-G



IC301 AK4358VQ-L

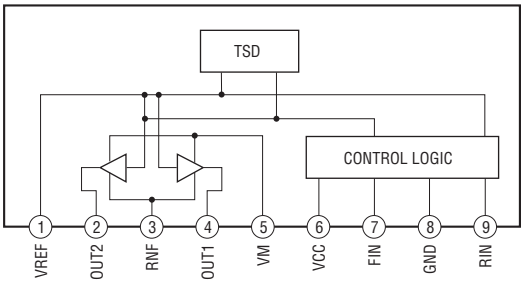


IC3601 PCM1803DBR



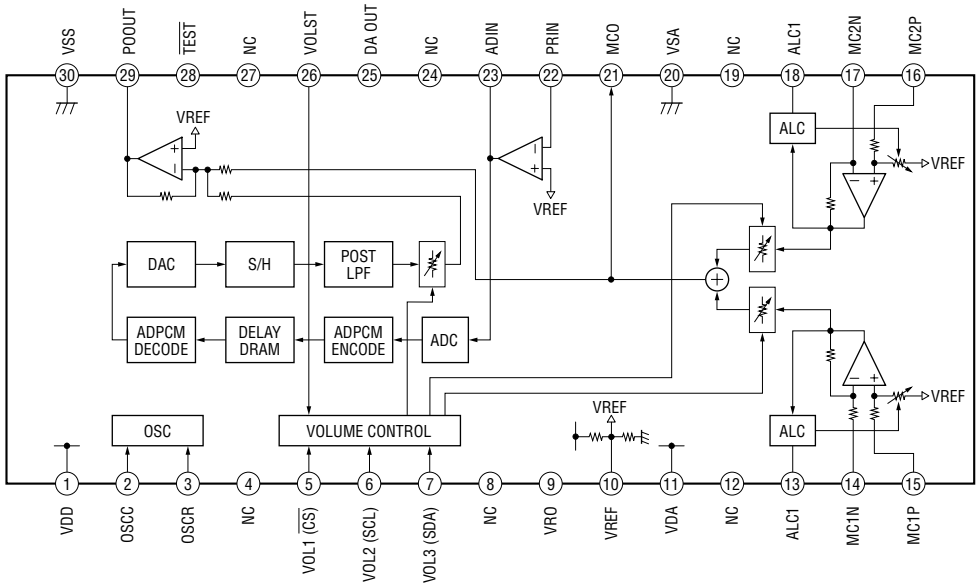
– DRIVER Board –

IC701, 712 BA6956AN



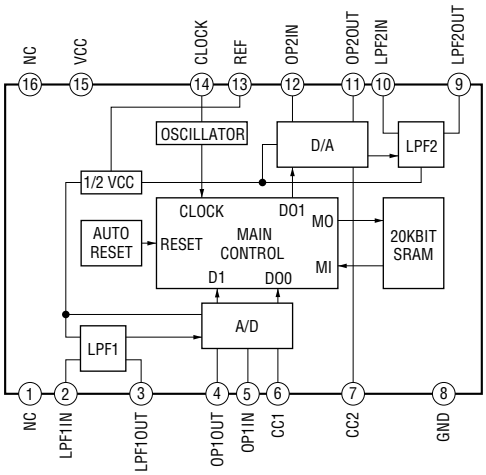
– MIC Board –

IC1100 TC9488FG

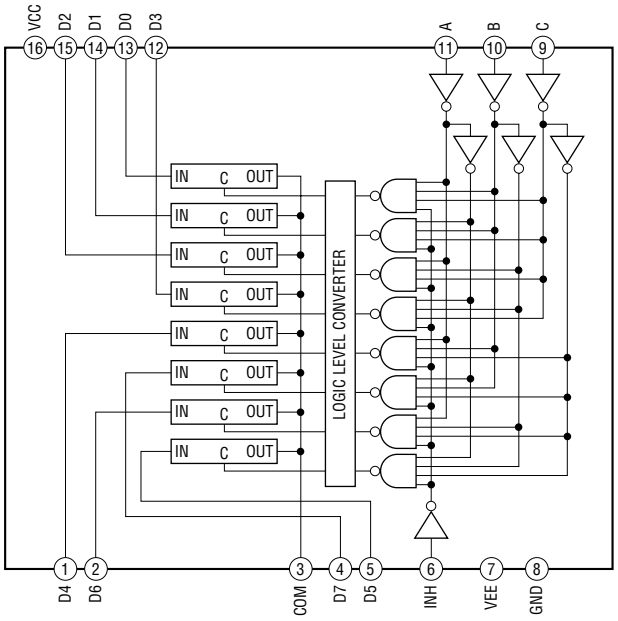


– EFFECTOR Board –

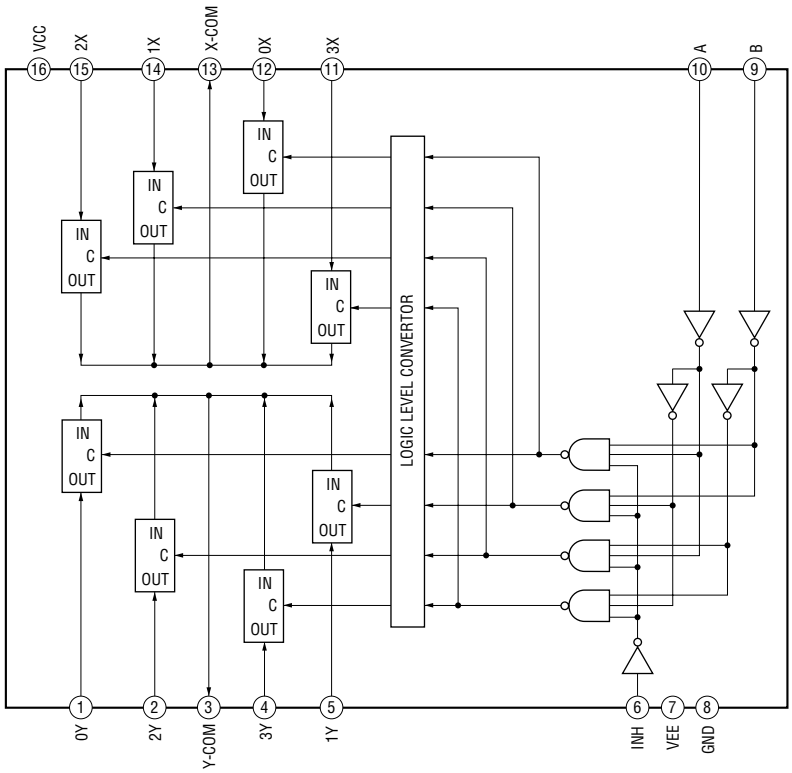
IC1501, 1504 M65850FP-E1



IC1502, 1503 TC74LVX4051FT

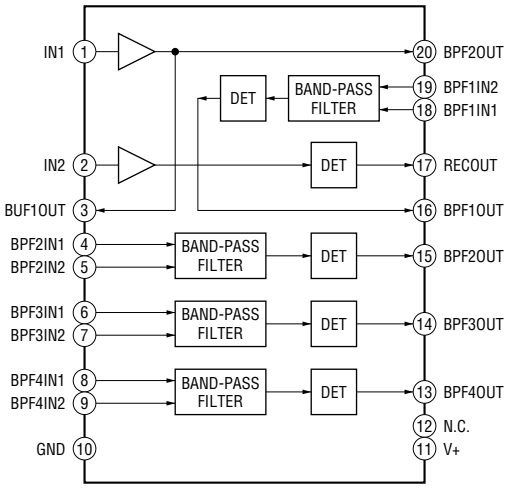


IC1506 TC74LVX4052FT



– PANEL Board –

IC904 NJM2760V-TE2



- **IC Pin Function Description**

DMB15 BOARD IC102 CXD9849R (RF AMP, SERVO DSP, MPEG DECODER)

Pin No.	Pin Name	I/O	Description
1	AGND	-	Ground terminal
2	DVDA	I	AC coupled input path A
3	DVDB	I	AC coupled input path B
4	DVDC	I	AC coupled input path C
5	DVDD	I	AC coupled input path D
6	DVDRFIP	I	AC coupled DVD RF signal input from the optical pick-up block
7	DVDRFIN	I	AC coupled DVD RF signal input terminal Not used
8	MA	I	DC coupled main-beam RF signal input A
9	MB	I	DC coupled main-beam RF signal input B
10	MC	I	DC coupled main-beam RF signal input C
11	MD	I	DC coupled main-beam RF signal input D
12	SA	I	DC coupled sub-beam RF signal input A Not used
13	SB	I	DC coupled sub-beam RF signal input B Not used
14	SC	I	DC coupled sub-beam RF signal input C Not used
15	SD	I	DC coupled sub-beam RF signal input D Not used
16	CDFON	I	CD focusing error negative input terminal Not used
17	CDFOP	I	CD focusing error positive input terminal Not used
18	TNI	I	3 beam satellite PD signal negative input from the optical pick-up block
19	TPI	I	3 beam satellite PD signal positive input from the optical pick-up block
20, 21	MDI1, MDI2	I	Laser power monitor input from the optical pick-up block
22	LDO2	O	Laser diode drive signal output to the optical pick-up block (for DVD)
23	LDO1	O	Laser diode drive signal output to the optical pick-up block (for CD)
24	SVDD3	-	Power supply terminal (+3.3V)
25	CSO	O	Central servo signal output terminal Not used
26	RFLVL	O	RFRP low pass output terminal Not used
27	SGND	-	Ground terminal
28	V2REFO	O	Reference voltage (+2.8V) output terminal Not used
29	V2O	O	Reference voltage (+2V) output to the optical pick-up block
30	VREFO	O	Reference voltage (+1.4V) output terminal
31	FEO	O	Focus error monitor output terminal Not used
32	TEO	O	Tracking error monitor output terminal Not used
33	TEZISLV	O	Slice level of tracking error signal output terminal Not used
34	OPOUT	O	Output from the internal operational amplifier Not used
35, 36	OPIN	I	Input to the internal operational amplifier Not used
37	DMO	O	Spindle motor control signal output to the motor driver
38	FMO	O	Sled motor control signal output to the motor driver
39	TROPENPWM	O	Loading motor control signal output terminal Not used
40	IOPMON	I	Power monitor terminal
41	TRO	O	Tracking coil control signal output to the coil driver
42	FOO	O	Focus coil control signal output to the coil driver
43	DVSS	-	Ground terminal
44, 45	NC	-	Not used
46	DVDD3	-	Power supply terminal (+3.3V)
47	SPFG	I	Spindle motor hall sensor input from the motor driver
48	DSEL	O	Interlace/progressive selection signal output terminal Not used

Pin No.	Pin Name	I/O	Description
49	WIDE	O	Normal/squeeze selection signal output to the video amplifier "L": normal, "H": squeeze
50	MSW	O	CD/DVD selection signal output terminal "L": CD, "H": DVD
51	MAMUTE	-	Muting control signal output terminal Not used
52	DVDD18	-	Power supply terminal (+1.8V)
53 to 61	IOA2 to IOA8, IOA18, IOA19	O	Address signal output to the flash ROM
62	DVSS	-	Ground terminal
63	APLLCAP	-	Connection terminal for an external capacitor
64	APLLVSS	-	Ground terminal
65	VDD3	-	Power supply terminal (+3.3V)
66	IOWR	O	Write enable signal output to the flash ROM
67 to 72	IOA16 to IOA11	O	Address signal output to the flash ROM
73	DVDD3	-	Power supply terminal (+3.3V)
74 to 76	IOA10, IOA9, IOA20	O	Address signal output to the flash ROM
77	IOCS	O	Chip select signal output to the flash ROM
78	IOA1	O	Address signal output to the flash ROM
79	IOOE	O	Output enable signal output to the flash ROM
80	DVDD3	-	Power supply terminal (+3.3V)
81 to 84	AD0 to AD3	I/O	Data/address signal input/output terminal with the flash ROM
85	DVSS	-	Ground terminal
86 to 88	AD4 to AD6	I/O	Data/address signal input/output terminal with the flash ROM
89	IOA21	O	Address signal output to the flash ROM
90	ALE	O	Address latch enable signal output terminal Not used
91	AD7	I/O	Data/address signal input/output terminal with the flash ROM
92, 93	IOA17, IOA0	O	Address signal output to the flash ROM
94	DVSS	-	Ground terminal
95	UWR	O	Write enable signal output terminal Not used
96	URD	O	Data read enable signal output terminal Not used
97	DVDD18	-	Power supply terminal (+1.8V)
98	IFSDO	O	Serial data output to the master controller
99	IFCK	O	Serial data transfer clock signal output to the master controller
100	XIFCS	O	Chip select signal output to the master controller
101	IFSDI	I	Serial data input from the master controller
102	SCL	O	Serial data transfer clock signal output to the EEPROM and D/A converter
103	SDA	I/O	Two-way data bus with the EEPROM and D/A converter
104	TRG-SW	I	Trigger detection switch input terminal Not used
105	IFBSY	I	Busy signal input from the master controller
106	RXD	I	Receive data input terminal for UART communication when data writing to flash memory
107	TXD	O	Transmit data output terminal for UART communication when data writing to flash memory
108	DVDD3	-	Power supply terminal (+3.3V)
109	ICE	I	ICE mode enable signal input terminal Not used
110	PRST	I	Reset signal input from the master controller "L": reset
111	IR	I	IR control signal input terminal Not used
112	INT0	O	Interrupt request signal output terminal Not used
113	DQM0	O	Data mask signal output to the SD-RAM
114	MREQ	O	Muting request signal output terminal Not used

Pin No.	Pin Name	I/O	Description
115	RD7	I/O	Two-way data bus with the SD-RAM
116	DVSS	-	Ground terminal
117, 118	RD6, RD5	I/O	Two-way data bus with the SD-RAM
119	DVSS	-	Ground terminal
120, 121	RD4, RD3	I/O	Two-way data bus with the SD-RAM
122	DVDD18	-	Power supply terminal (+1.8V)
123 to 126	RD2 to RD0, RD15	I/O	Two-way data bus with the SD-RAM
127	DVDD3	-	Power supply terminal (+3.3V)
128 to 133	RD14 to RD9	I/O	Two-way data bus with the SD-RAM
134	DVSS	-	Ground terminal
135	RD8	I/O	Two-way data bus with the SD-RAM
136	GPIO	-	Not used
137	DQM1	O	Data mask signal output to the SD-RAM
138	RWE	O	Write enable signal output to the SD-RAM
139	CAS	O	Column address strobe signal output to the SD-RAM
140	RAS	O	Row address strobe signal output to the SD-RAM
141	DVDD3	-	Power supply terminal (+3.3V)
142	RCS	O	Chip select signal output to the SD-RAM
143	BA0	O	Bank address signal output to the SD-RAM
144	DVSS	-	Ground terminal
145	BA1	O	Bank address signal output to the SD-RAM
146, 147	RA10, RA0	O	Address signal output to the SD-RAM
148	DVSS	-	Ground terminal
149 to 151	RA1 to RA3	O	Address signal output to the SD-RAM
152	DVDD18	-	Power supply terminal (+1.8V)
153, 154	NC	-	Not used
155	DVDD3	-	Power supply terminal (+3.3V)
156	RCLK	O	Serial data transfer clock signal output to the SD-RAM
157	CKE	O	Clock enable signal output to the SD-RAM
158 to 160	RA11, RA9, RA8	O	Address signal output to the SD-RAM
161	DVSS	-	Ground terminal
162	RA7	O	Address signal output to the SD-RAM
163	DVSS	-	Ground terminal
164 to 166	RA6 to RA4	O	Address signal output to the SD-RAM
167	DVDD3	-	Power supply terminal (+3.3V)
168	DISC/X	-	Not used
169	RGB	-	Not used
170	TSD_M	O	Thermal shut down signal output to the motor/coil driver
171, 172	NC	-	Not used
173	DVDD18	-	Power supply terminal (+1.8V)
174	FWD	O	Loading motor drive signal output terminal (forward direction) Not used
175	NC	-	Not used
176	LIMSW	I	Limit detection switch input terminal
177	OCSW	I	Disc table open/close detection switch input terminal Not used
178	REV	O	Loading motor drive signal output terminal (reverse direction) Not used
179	CKSW	I	Chucking detection switch input terminal Not used
180, 181	NC	-	Not used

Pin No.	Pin Name	I/O	Description
182	DVDD3	-	Power supply terminal (+3.3V)
183 to 188	NC	-	Not used
189	DAVCC	-	Power supply terminal (+3.3V)
190	VREF	-	For bandgap reference voltage terminal
191	FS	-	Full scale adjustment terminal
192	YUV0	O	Video data output terminal Not used
193	DAVSS	-	Ground terminal
194	YUV1	O	Y signal output to the video amplifier
195	DAVDD	-	Power supply terminal (+3.3V)
196	YUV2	O	Chroma signal output to the video amplifier
197	DAVSS	-	Ground terminal
198	YUV3	O	Video signal output to the video amplifier
199	DAVDD	-	Power supply terminal (+3.3V)
200	YUV4	O	Chroma signal output to the video amplifier
201	DAVSS	-	Ground terminal
202, 203	YUV5, YUV6	O	Component video signal output to the video amplifier
204	DVDD3	-	Power supply terminal (+3.3V)
205	MIC	I	Microphone detection signal input from the master controller "H": microphone in
206	VOICE	I	Voice signal input terminal
207	KRMOD	O	Karaoke mode selection signal output to the master controller "H": karaoke mode
208	SMSCK	I	Score signal input terminal
209	SPDATA	I	SPDIF digital audio data input from the A/D converter
210	MUTE	O	Muting signal output to the motor/coil driver
211	MUTE123	O	Muting signal output to the motor/coil driver
212	DVDD3	-	Power supply terminal (+3.3V)
213	ALRCK	O	L/R sampling clock signal output to the D/A converter and A/D converter
214	ABCK	O	Bit clock signal output to the D/A converter and A/D converter
215	ACLK	O	Master clock signal output to the D/A converter and A/D converter
216	DVSS	-	Ground terminal
217 to 219	ASDATA0 to ASDATA2	O	Audio serial data output to the D/A converter
220	XRST	O	Reset signal output to the D/A converter "L": reset
221	DVDD18	-	Power supply terminal (+1.8V)
222	ASDATA4	O	Audio serial data output to the D/A converter
223	DVSS	-	Ground terminal
224	DWIDE	-	Not used
225	SPDIF	O	SPDIF digital audio signal output terminal Not used
226	RFGND18	-	Ground terminal
227	RFVDD18	-	Power supply terminal (+1.8V)
228	XTALO	O	System clock output terminal (27 MHz)
229	XTALI	I	System clock input terminal (27 MHz)
230	JITFO	O	Output terminal of the RF jitter meter
231	JITFN	I	Input terminal of the RF jitter meter
232	PLLVSS	-	Ground terminal
233	IDAC	-	Not used
234	PLLVDD3	-	Power supply terminal (+3.3V)
235	LPFON	O	Data PLL loop filter output terminal
236	LPFIP	I	Data PLL loop filter input terminal

Pin No.	Pin Name	I/O	Description
237	LPFIN	I	Data PLL loop filter input terminal
238	LPFOP	O	Data PLL loop filter output terminal
239	VDD3	-	Power supply terminal (+3.3V)
240	NC	-	Not used
241	VSS	-	Ground terminal
242, 243	NC	-	Not used
244	RFVDD3	-	Power supply terminal (+3.3V)
245	RFRPDC	O	RF ripple detect output terminal
246	RFRPAC	I	RF ripple detect input terminal
247	HRFZC	I	High frequency RF ripple zero crossing terminal
248	CRTPLP	O	Defect level filter capacitor connecting terminal
249	RFGND	-	Ground terminal
250, 251	NC	-	Not used
252	OSP	O	RF offset cancellation capacitor connecting terminal
253	OSN	O	RF offset cancellation capacitor connecting terminal
254	RFGC	O	RF AGC loop capacitor connecting for DVD-ROM
255	IREF	I	Reference current input terminal
256	AVDD3	-	Power supply terminal (+3.3V)

MAIN BOARD IC401 M30622MEP-A78FPU0 (MASTER CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	TUNED	I	Tuning detection signal input from the tuner (FM/AM) "L": tuned
2	ST-DOUT	O	PLL serial data output to the tuner (FM/AM)
3	ST-CLK	O	PLL serial data transfer clock signal output to the tuner (FM/AM)
4	SIRCS	I	Remote control signal input from the remote control receiver
5	ST-DIN	I	PLL serial data input from the tuner (FM/AM)
6	ST-CE	O	PLL serial chip enable signal output to the tuner (FM/AM)
7	STBY-RELAY	O	Relay drive signal output for the main power "H": power on
8	BYTE	I	External data bus width selection signal input terminal Fixed at "L" in this set
9	CNVSS	I	Processor mode switch input terminal (for test)
10	XC-IN	I	Sub system clock input terminal (32.768 kHz)
11	XC-OUT	O	Sub system clock output terminal (32.768 kHz)
12	RESET	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it change to "H"
13	X-OUT	O	Main system clock output terminal (5 MHz)
14	VSS	-	Ground terminal
15	X-IN	I	Main system clock input terminal (5 MHz)
16	VCC	-	Power supply terminal (+3.3V)
17	NMI	I	Non-maskable interrupt input terminal Fixed at "H" in this set
18	EFFECTOR-SELECT	O	Effector on/off control signal output to the signal selector "H": effector on
19	EFFECTOR-S0	O	Effector circuit delay time selection signal output to the multiplexer
20	AC-CUT	I	AC cut on/off detection signal input from the reset signal generator "L": AC cut on
21	MIC STATUS	O	Microphone detection signal output to the servo DSP "H": microphone in
22	MTK-KMOD	I	Karaoke mode selection signal input from the servo DSP "H": karaoke mode
23	MTK-IFBSY	O	Busy signal output to the servo DSP
24	MTK-XIFCS	I	Chip select signal input from the servo DSP
25	MTK-RESET	O	Reset signal output to the servo DSP "L": reset
26	EJECT SW	I	Disc table open/close detection signal input terminal "L": open, "H": close
27	TBL SENS	I	Disc table address sensor input terminal
28	E3	I	Disc table address detection signal input terminal
29	IIC-CLK	I/O	Two-way IIC clock bus with the display controller
30	IIC-DATA	I/O	Two-way I2C data bus with the display controller
31	MTK-SIO	O	Serial data output to the servo DSP
32	MTK-SOD	I	Serial data input from the servo DSP
33	MTK-CLK	I	Serial data transfer clock signal input from the servo DSP
34, 35	E2, E1	I	Disc table address detection signal input terminal
36	TM-F	O	Table motor drive signal output terminal (forward direction)
37	TM-R	O	Table motor drive signal output terminal (reverse direction)
38	LM-F	O	Loading motor drive signal output terminal (forward direction)
39	LM-R	O	Loading motor drive signal output terminal (reverse direction)
40	GC-RESET	O	Reset signal output to the display controller "L": reset
41	STBY-LED	O	LED drive signal output terminal "L": red LED on (standby mode),"H": green LED on (power on mode)
42	FAN CONTROL	O	Fan motor on/off control signal output terminal "L": motor on
43 to 45	EFFECTOR-S1 to EFFECTOR-S3	O	Effector circuit delay time selection signal output to the multiplexer

Pin No.	Pin Name	I/O	Description
46	ANALOG-IN-MUTE	O	Analog signal muting on/off control signal output terminal "H": muting on
47	A-HALF	I	Deck-A cassette detection signal input from the tape mechanism deck block "L": cassette in
48	A-TRIG	O	Deck-A side trigger plunger drive signal output terminal "H": plunger on
49	B-TRIG	O	Deck-B side trigger plunger drive signal output terminal "H": plunger on
50	CAPM	O	Capstan/reel motor drive signal output terminal "L": FWD/stop, "H": REV
51	SW-SPK RELAY	O	Relay drive signal output for the subwoofer (SS-WGV100D) "H": relay on (HCD-ZX100D only)
52	REC BIAS	O	Recording bias on/off control signal output terminal "H": bias on
53	TC-RELAY	O	Recording/playback selection signal output terminal "L": playback, "H": recording
54	REC MUTE	O	Recording muting on/off control signal output to the REC/PB EQ amplifier "L": muting on
55	PB A/B	O	DECK-A/B selection signal output to the REC/PB EQ amplifier "L": deck-B, "H": deck-A
56	ALC	O	Automatic limiter on/off control signal output to the REC/PB EQ amplifier "H": limiter on
57	EFFECTOR-CTR1	O	Effector mode control signal output terminal "L": delay1, delay 2, effector off, "H": flanger 1, flanger 2, chorus 1, chorus 2
58	FAN HI SPEED	O	Fan motor speed control signal output terminal "L": hi speed
59	NO USE	-	Not used
60	STK-MUTE	O	System muting on/off control signal output terminal "L": muting on, "H": power amplifier on Muting on/off control signal output for subwoofer out "L": muting on (HCD-ZX80D only)
61	REAR-RELAY	O	Relay drive signal output for the surround (rear) speaker "H": relay on
62	VCC	-	Power supply terminal (+3.3V)
63	EFFECTOR-CTR2	O	Effector mode control signal output terminal "L": delay 2, effector off, "H": flanger 1, flanger 2, chorus 1, chorus 2, delay1
64	VSS	-	Ground terminal
65	CTR-RELAY	O	Relay drive signal output for the center speaker "H": relay on
66	FR-RELAY	O	Relay drive signal output for the front speaker "H": relay on
67	PROTECT	I	Speaker protect detection signal input terminal "L": protect on
68	OVER VOLTAGE	I	Over voltage detection signal input terminal "H": over voltage is detected (Except Mexican model only)
69	UNDER VOLTAGE	I	Under voltage detection signal input terminal "L": under voltage is detected (Except Mexican model only)
70	EFFECTOR-CTR3	O	Effector mode control signal output terminal "L": chorus 1, chorus 2, effector off, "H": flanger 1, flanger 2, delay1, delay 2
71	TC-MUTE	O	Playback muting on/off control signal output terminal "H": muting on
72	HP-MUTE	O	Headphone muting on/off control signal output terminal "H": muting on
73	DISPLAY-KEY	I	DISPLAY key input terminal (interrupt input)
74	POWER-KEY	I	POWER key input terminal (interrupt input)
75	SW-MUTE	O	Muting on/off control signal output for subwoofer out "L": muting on (HCD-ZX80D only)
76	LINE-MUTE	O	Line muting on/off control signal output terminal "H": muting on
77	DVD-A-MUTE	O	CD/DVD analog signal muting on/off control signal output terminal "H": muting on
78	MTK-POWER	O	Power on/off control signal output for the CD/DVD sections "H": power on
79	AUDIO-IC-DATA	O	Serial data output to the audio control
80	AUDIO-IC-CLK	O	Serial data transfer clock signal output to the audio control
81	VOL-IC-DATA	O	Serial data output to the electrical volume
82	VOL-IC-CLK	O	Serial data transfer clock signal output to the electrical volume
83	AUDIO-OUT-SW	O	Audio out muting on/off control signal output terminal "H": muting on
84	HP-DETECT	I	Headphone detection signal input terminal "H": headphone in
85	MIC-DETECT	I	Microphone detection signal input terminal "H": microphone in

Pin No.	Pin Name	I/O	Description
86	NO USE	-	Not used
87	VIDEO-OUT-SW	O	Composite video out selection signal output to the video switch "L": DVD video output, "H": video input output
88	VMUTE	O	Video muting on/off control signal output to the video amplifier "L": muting on
89	A-SHUT	I	Deck-B tape reel rotating detection signal input from the tape mechanism deck block
90	B-SHUT	I	Deck-A tape reel rotating detection signal input from the tape mechanism deck block
91	B-HALF	I	Deck-B cassette detection signal, recording-proof (forward direction) detection signal and recording-proof (reverse direction) detection signal input from the tape mechanism deck block (A/D input) "L": cassette in and recording possible
92	MODEL-IN	I	Model setting input terminal (A/D input)
93	DEST-IN	I	Destination setting input terminal (A/D input)
94	THERMAL VACS	I	Thermal VACS detection signal input from thermal sensor (A/D input)
95	SW-LEVEL-IN	I	Subwoofer volume level detection signal input from the SS-WGV100D (HCD-ZX100D only)
96	AVSS	-	Ground terminal (for A/D conversion)
97	NO USE	-	Not used
98	VREF	I	Reference voltage (+3.3V) input terminal (for A/D converter)
99	AVCC	-	Power supply terminal (+3.3V) (for A/D conversion)
100	SW-LED	O	LED drive signal output to the SS-WGV100D for subwoofer on indicator "H": LED on (HCD-ZX100D only)

PANEL BOARD IC902 MB90M407PF-G-149E1 (DISPLAY CONTROLLER)

Pin No.	Pin Name	I/O	Description
1 to 8	G8 to G1	O	Grid drive signal output to the fluorescent indicator tube
9, 10	P1, P2	O	Segment drive signal output to the fluorescent indicator tube
11	VSS-IO	-	Ground terminal (for I/O port)
12 to 22	P3 to P13	O	Segment drive signal output to the fluorescent indicator tube
23	VDD-FIP	-	Power supply terminal (+3.3V) (for fluorescent indicator tube)
24 to 41	P14 to P31	O	Segment drive signal output to the fluorescent indicator tube
42	VSS-IO	-	Ground terminal (for I/O port)
43 to 47	P32 to P36	O	Segment drive signal output to the fluorescent indicator tube
48	VKK	-	Power supply terminal (-36V) (for fluorescent indicator tube)
49, 50	MD0, MD1	I	Setting terminal for the CPU operation mode Fixed at "H" in this set
51	MD2	I	Setting terminal for the CPU operation mode Fixed at "L" in this set
52	LED-CD/DVD, TUNER	O	LED drive signal output for the DVD and TUNER/BAND indicator "H": LED on
53	LED-TAPE, TV/SAT	O	LED drive signal output for the TAPE A/B and TV/SAT indicator "H": LED on
54	LED-VIDEO, (PAUSE, STOP)	O	LED drive signal output for the VIDEO, pause and stop indicator "H": LED on
55	LED- (AMS+, AMS-), (FF, FR)	O	LED drive signal output for the AMS+, AMS-, FF and FR indicator "H": LED on
56	LED-VOLUME 1, 2	O	LED drive signal output for the volume level 1 and 2 indicator "H": LED on
57	LED-VOLUME 3, 4	O	LED drive signal output for the volume level 3 and 4 indicator "H": LED on
58	LED-VOLUME 5, 6	O	LED drive signal output for the volume level 5 and 6 indicator "H": LED on
59	LED-VOLUME 7, 8	O	LED drive signal output for the volume level 7 and 8 indicator "H": LED on
60	I2C-DATA	I/O	Two-way I2C data bus with the master controller
61	I2C-CLOCK	I/O	Two-way I2C clock bus with the master controller
62	AVCC	-	Power supply terminal (+3.3V) (for A/D converter)
63	AVSS	-	Ground terminal (for A/D converter)
64 to 66	KEY 0 to KEY 2	I	Front and top panel key input terminal (A/D input)
67	ALL-BAND	I	Spectrum analyzer drive signal input from the band-pass filter
68	BF4	I	Spectrum analyzer drive signal input from the band-pass filter (for 80 Hz)
69	BF3	I	Spectrum analyzer drive signal input from the band-pass filter (for 300 Hz)
70	BF2	I	Spectrum analyzer drive signal input from the band-pass filter (for 1.2 kHz)
71	BF1	I	Spectrum analyzer drive signal input from the band-pass filter (for 8 kHz)
72	OPERATION DIAL	I	Jog dial pulse input from the rotary encoder (OPERATION DIAL)
73	JOG-X-ROUND	I	Jog dial pulse input from the rotary encoder (X-ROUND JOG)
74	VOLUME	I	Jog dial pulse input from the rotary encoder (MASTER VOLUME)
75	LED- (BEAT JUMP, BEAT MAX)	O	LED drive signal output for the BEAT JUMP and BEAT MAX indicator "H": LED on
76	LED- (BALANCE, WAVE, FADER, RANDOM), DELAY	O	LED drive signal output for the BALANCE, WAVE, FADER, RANDOM and DELAY indicator "H": LED on
77	RESET	I	Reset signal input from the master controller "L": reset
78	LED-FLANGER, CHORUS	O	LED drive signal output for the FLANGER and CHORUS indicator "H": LED on
79	LED-PLAY	O	LED drive signal output for the play indicator "H": LED on
80	LED SELECTOR	O	LED selection signal output terminal

Pin No.	Pin Name	I/O	Description
81	VSS-CPU	-	Ground terminal (for CPU)
82	XOUT	O	System clock output terminal (4 MHz)
83	XIN	I	System clock input terminal (4 MHz)
84	VCC-CPU	-	Power supply terminal (+3.3V) (for CPU)
85 to 100	G24 to G9	O	Grid drive signal output to the fluorescent indicator tube

SECTION 8
EXPLODED VIEWS

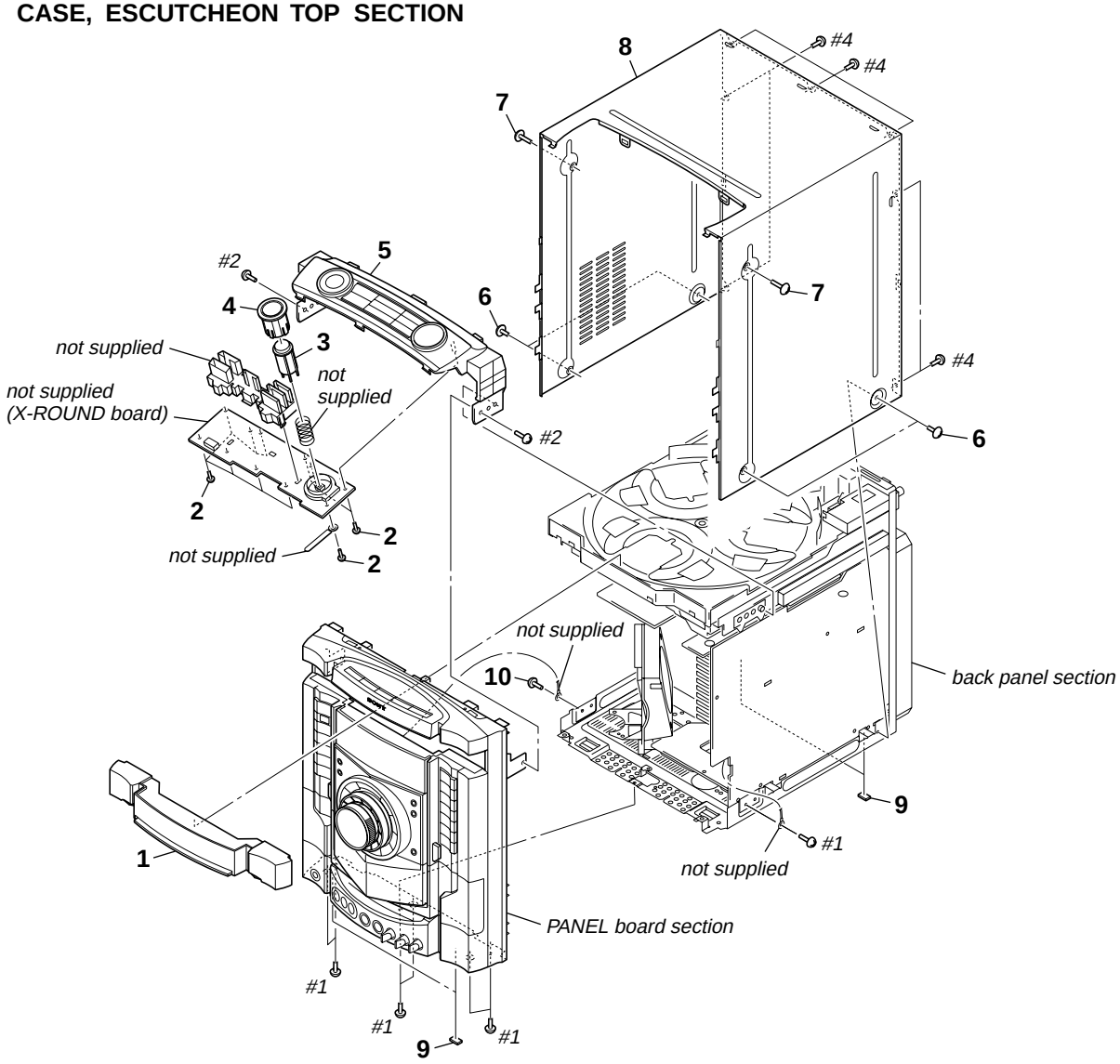
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  E2 : 120V AC area in E model
  E3 : 240V AC area in E model
  E13 : Russian model and 220 – 230V AC area in E model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

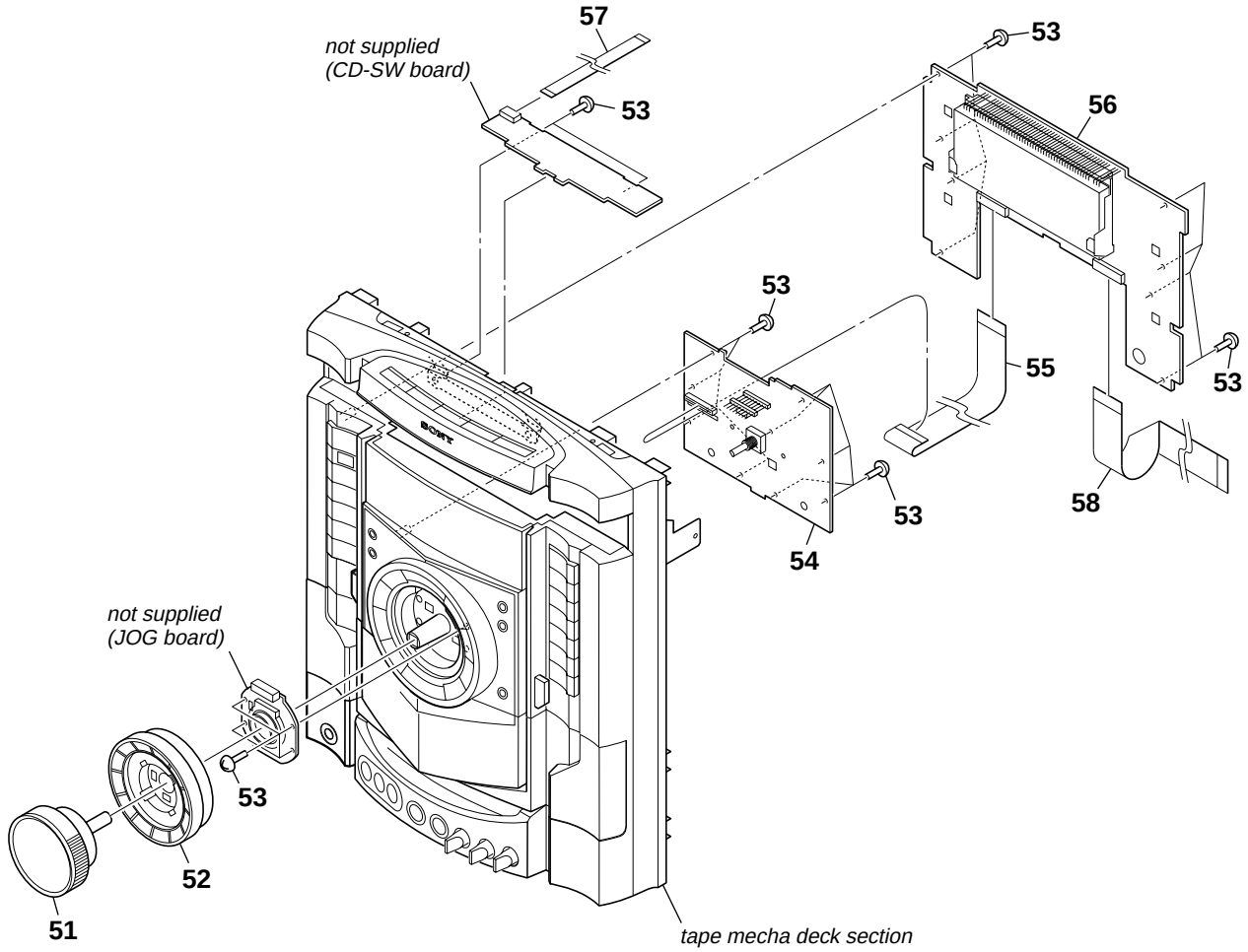
E51 : Chilean and Peruvian models
MX : Mexican model
MY : Malaysia model
SP : Singapore model

8-1. CASE, ESCUTCHEON TOP SECTION



Ref. No.	Part No.	Description	Remark
1	2-655-708-51	PANEL, LOADING (ZX80D: E3, E13)	
1	2-655-708-61	PANEL, LOADING (ZX100D: E3, SP, MY)	
1	2-685-144-11	PANEL, LOADING (ZX80D: E2, MX)	
1	2-685-144-21	PANEL, LOADING (ZX100D: E2, MX)	
1	2-685-144-31	PANEL, LOADING (ZX80D: E51)	
1	2-685-144-41	PANEL, LOADING (ZX100D: E51)	
2	3-087-053-01	+BVTP2.6 (3CR)	
3	2-662-067-01	BUTTON (SPEAKER) (SPEAKERS/X-ROUND OFF)	
4	2-662-065-01	JOG (X-ROUND)	
5	X-2108-715-1	ESCUTCHEON TOP ASSY	
6	3-363-099-02	SCREW (CASE 3 TP2)	
7	3-363-099-32	SCREW (CASE 3 TP2)	
8	2-342-137-51	CASE	
9	4-225-252-21	CUSHION (FOOT)	
10	3-077-331-01	+BV3 (3-CR)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

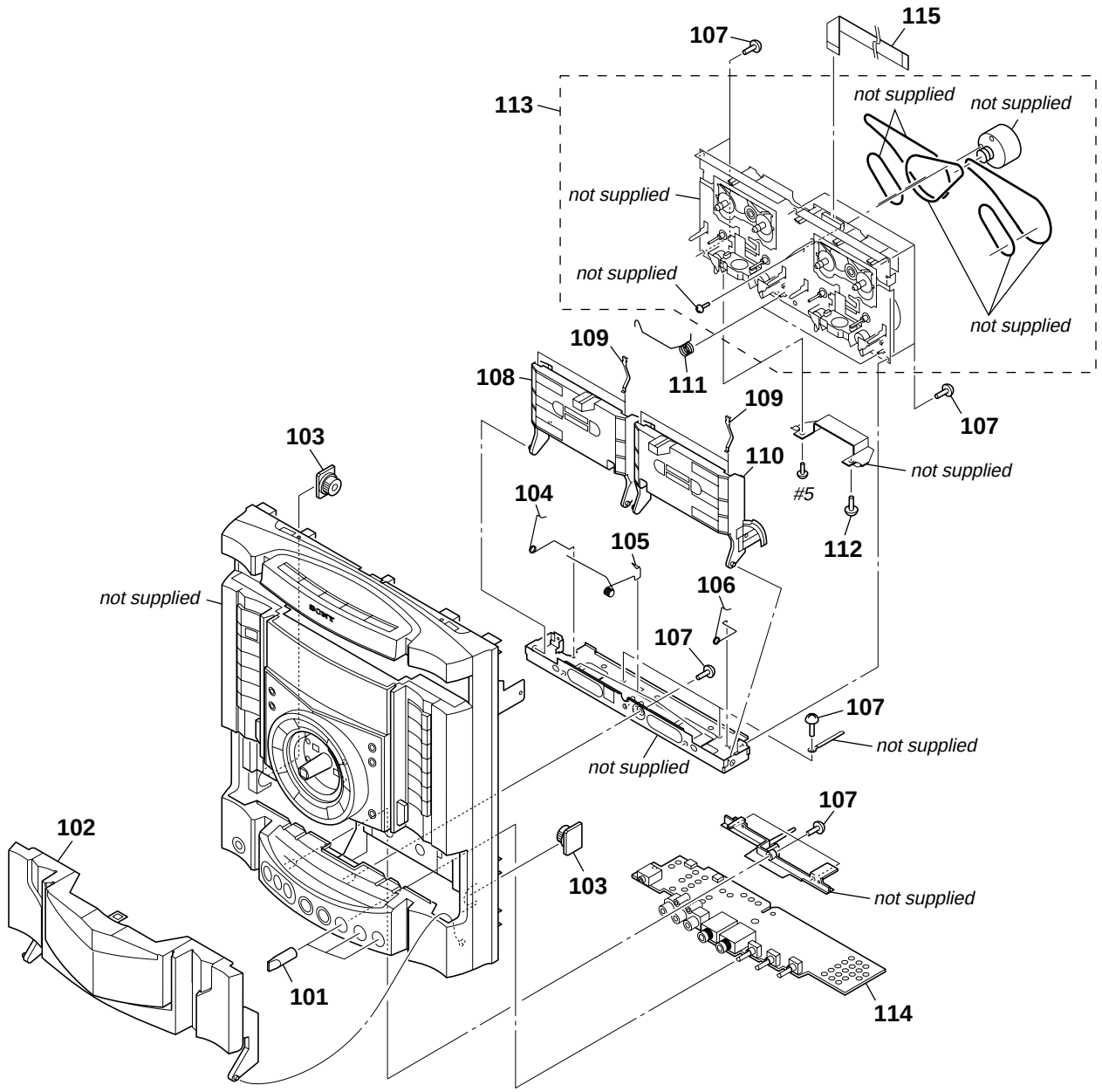
8-2. PANEL BOARD SECTION



Ref. No.	Part No.	Description	Remark
51	X-2108-713-1	KNOB VOLUME ASSY	
52	X-2108-714-1	KNOB JOG ASSY	
53	3-087-053-01	+BVTP2.6 (3CR)	
54	A-1174-314-A	FUNCTION BOARD, COMPLETE	
55	1-828-991-11	WIRE (FLAT TYPE) (17 CORE)	

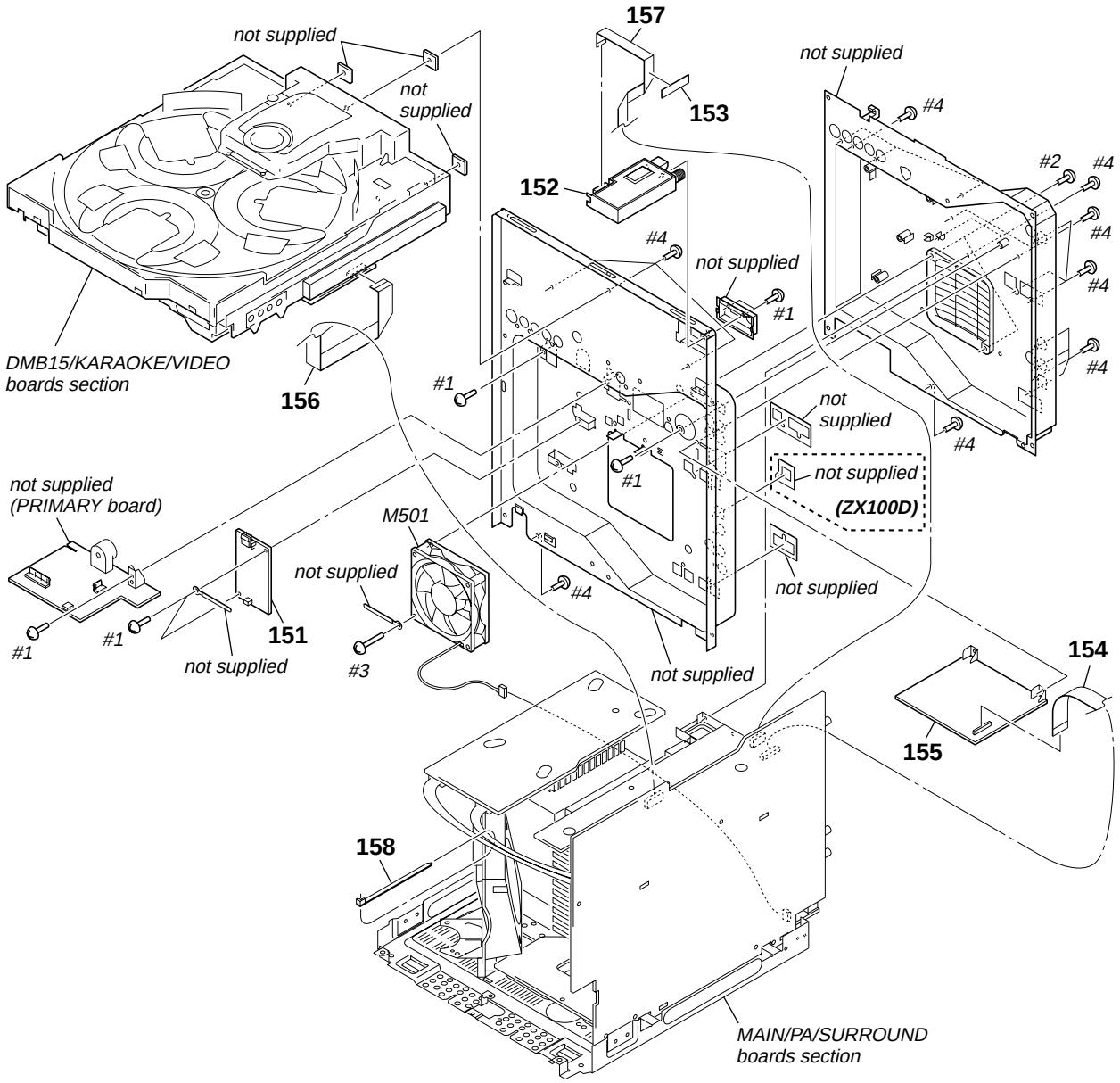
Ref. No.	Part No.	Description	Remark
56	A-1174-312-A	PANEL BOARD, COMPLETE	
57	1-828-942-11	WIRE (FLAT TYPE) (7 CORE)	
58	1-828-992-11	WIRE (FLAT TYPE) (17 CORE)	

8-3. TAPE MECHA DECK SECTION



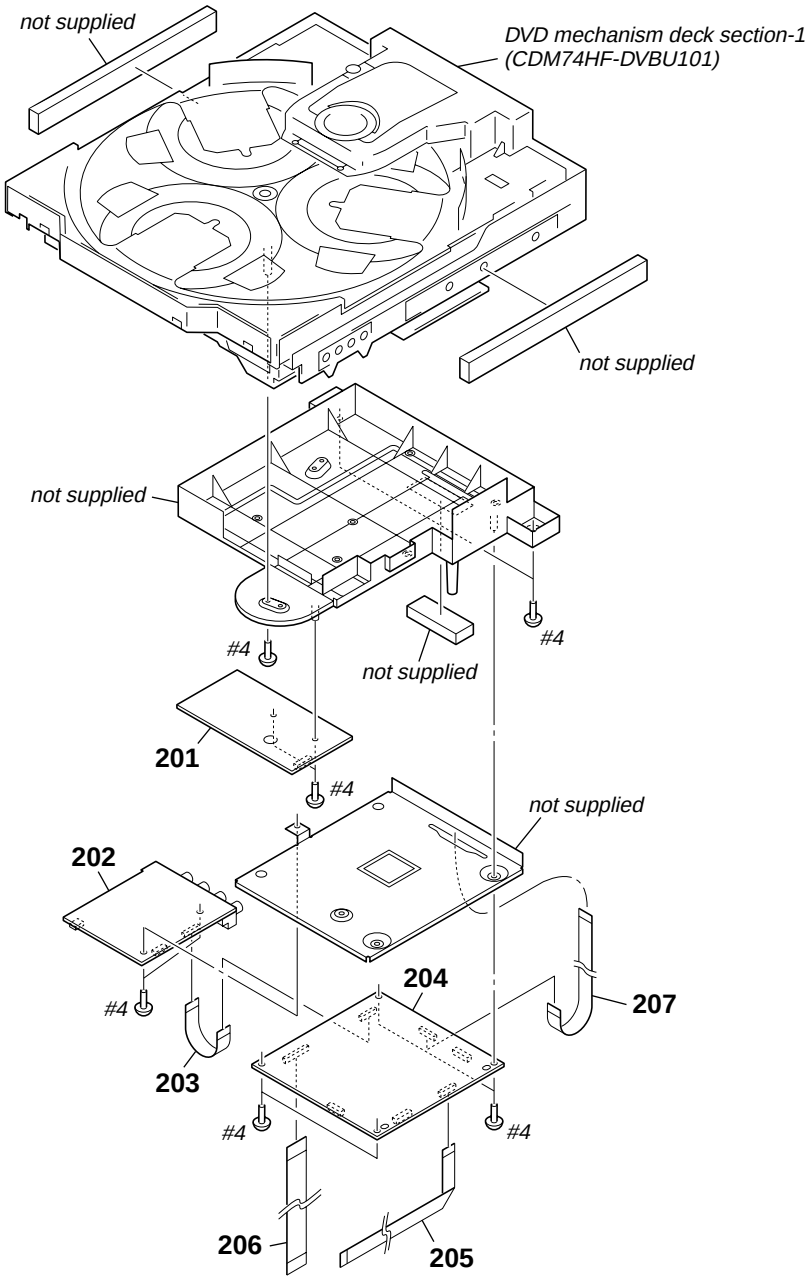
Ref. No.	Part No.	Description	Remark
101	4-224-578-31	KNOB (MIC)	
102	2-655-724-21	LID (TC)	
103	4-224-104-11	DAMPER	
104	2-655-733-01	SPRING (L)	
105	2-655-732-01	SPRING (LID)	
106	2-655-734-01	SPRING (R)	
107	3-087-053-01	+BVTP2.6 (3CR)	
108	4-252-578-11	HOLDER TC-L	
109	4-959-229-11	DETENT, CASSETTE	
110	4-252-579-11	HOLDER TC-R	
111	4-244-092-01	SPRING (EJECT)	
112	3-077-331-21	+BV3 (3-CR)	
113	1-417-658-11	MECHA DECK (CWN42RR603)	
114	A-1174-047-A	MIC BOARD, COMPLETE	
115	1-828-964-11	WIRE (FLAT TYPE) (11 CORE)	
#5	7-685-853-01	SCREW +BVTP 2X6 (S)	

8-4. BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark
⚠151	1-468-737-51	POWER SWITCHING	
152	1-693-702-11	TUNER (FM/AM) (TM10SE)	
153	3-378-109-12	CUSHION, SARANET	
154	1-828-358-11	WIRE (FLAT TYPE) (19 CORE)	
155	A-1173-807-A	EFFECTOR BOARD, COMPLETE (ZX80D: E2, E3, E13, E51/ ZX100D: E2, E3, E51, SP, MY)	
155	A-1174-198-A	EFFECTOR BOARD, COMPLETE (ZX80D: MX/ZX100D: MX)	
156	1-828-973-11	WIRE (FLAT TYPE) (13 CORE)	
157	1-828-956-11	WIRE (FLAT TYPE) (9 CORE)	
158	3-701-748-00	CLAMP	
M501	1-763-372-11	FAN, DC	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#3	7-685-651-79	SCREW +BVTP 3X20 TYPE2 N-S	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

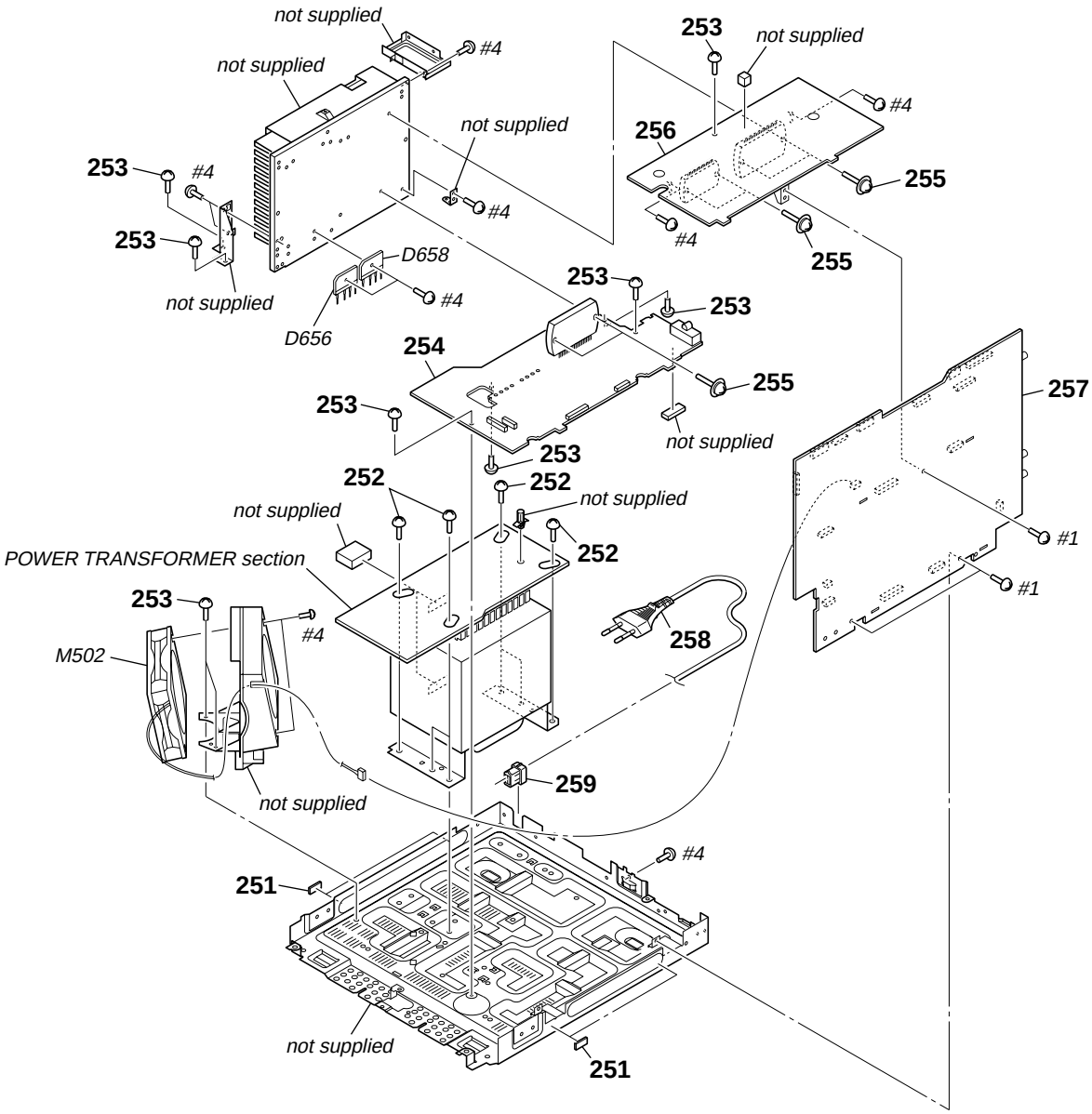
8-5. DMB15/KARAOKE/VIDEO BOARDS SECTION



Note: Refer to the Servicing Notes "NOTES ON REPLACEMENT OF THE DMB15 BOARD" (pagr 4), if replacing the Ref. No. 204.

Ref. No.	Part No.	Description	Remark
201	A-1193-305-A	KARAOKE BOARD, COMPLETE (ZX80D: E2, E3, E13, E51/ ZX100D: E2, E3, E51, SP, MY)	
201	A-1193-346-A	KARAOKE BOARD, COMPLETE (ZX80D: MX/ZX100D: MX)	
202	A-1174-061-A	VIDEO BOARD, COMPLETE (ZX80D: E2, E3, E13, E51/ ZX100D: E2, E3, E51, SP, MY)	
202	A-1174-224-A	VIDEO BOARD, COMPLETE (ZX80D: MX/ZX100D: MX)	
203	1-828-326-11	WIRE (FLAT TYPE) (13 CORE)	
204	A-1174-227-A	DMB15 BOARD, COMPLETE (ZX80D: MX/ZX100D: MX)	
204	A-1174-274-A	DMB15 BOARD, COMPLETE (ZX80D: E3, E13/ZX100D: E3)	
204	A-1193-183-A	DMB15 BOARD, COMPLETE (ZX100D: SP, MY)	
204	A-1193-188-A	DMB15 BOARD, COMPLETE (ZX80D: E2, E51/ZX100D: E2, E51)	
205	1-828-332-11	WIRE (FLAT TYPE) (13 CORE)	
206	1-828-632-11	WIRE (FLAT TYPE) (21 CORE)	
207	1-828-252-11	WIRE (FLAT TYPE) (24 CORE)	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

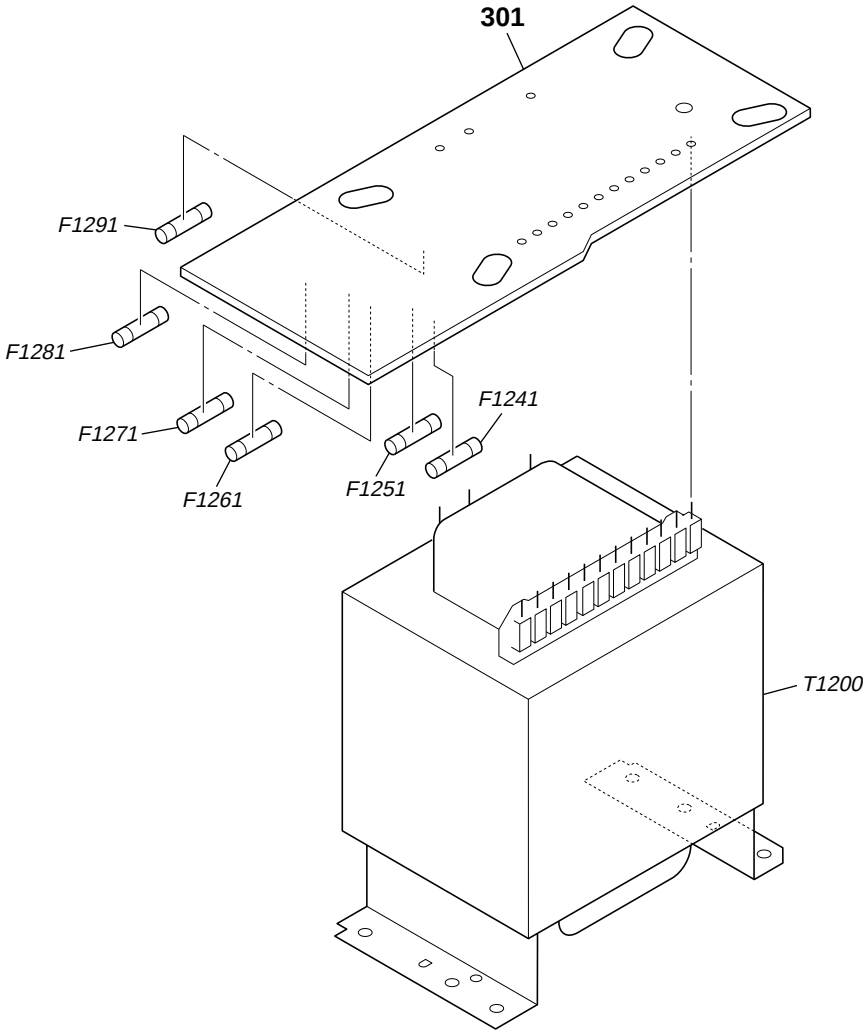
8-6. MAIN/PA/SURROUND BOARDS SECTION



Ref. No.	Part No.	Description	Remark
251	4-225-252-01	CUSHION (FOOT)	
252	4-900-386-01	SCREW	
253	3-077-331-21	+BV3 (3-CR)	
254	A-1174-202-A	PA BOARD, COMPLETE (ZX80D: MX)	
254	A-1174-267-A	PA BOARD, COMPLETE (ZX100D: MX)	
254	A-1174-326-A	PA BOARD, COMPLETE (ZX80D: E3, E13)	
254	A-1174-337-A	PA BOARD, COMPLETE (ZX100D: E3, SP, MY)	
254	A-1193-201-A	PA BOARD, COMPLETE (ZX80D: E2, E51)	
254	A-1193-204-A	PA BOARD, COMPLETE (ZX100D: E2, E51)	
255	3-905-609-31	SCREW (TRANSISTOR)	
256	A-1174-185-A	SURROUND BOARD, COMPLETE (ZX80D: MX)	
256	A-1174-262-A	SURROUND BOARD, COMPLETE (ZX100D: MX)	
256	A-1174-323-A	SURROUND BOARD, COMPLETE (ZX80D: E2, E3, E13, E51)	
256	A-1174-333-A	SURROUND BOARD, COMPLETE (ZX100D: E2, E3, E51, SP, MY)	
257	A-1174-078-A	MAIN BOARD, COMPLETE (ZX80D: E3)	
257	A-1174-169-A	MAIN BOARD, COMPLETE (ZX80D: MX)	
257	A-1174-256-A	MAIN BOARD, COMPLETE (ZX100D: MX)	
257	A-1174-328-A	MAIN BOARD, COMPLETE (ZX100D: E3)	
257	A-1193-164-A	MAIN BOARD, COMPLETE (ZX80D: E13)	

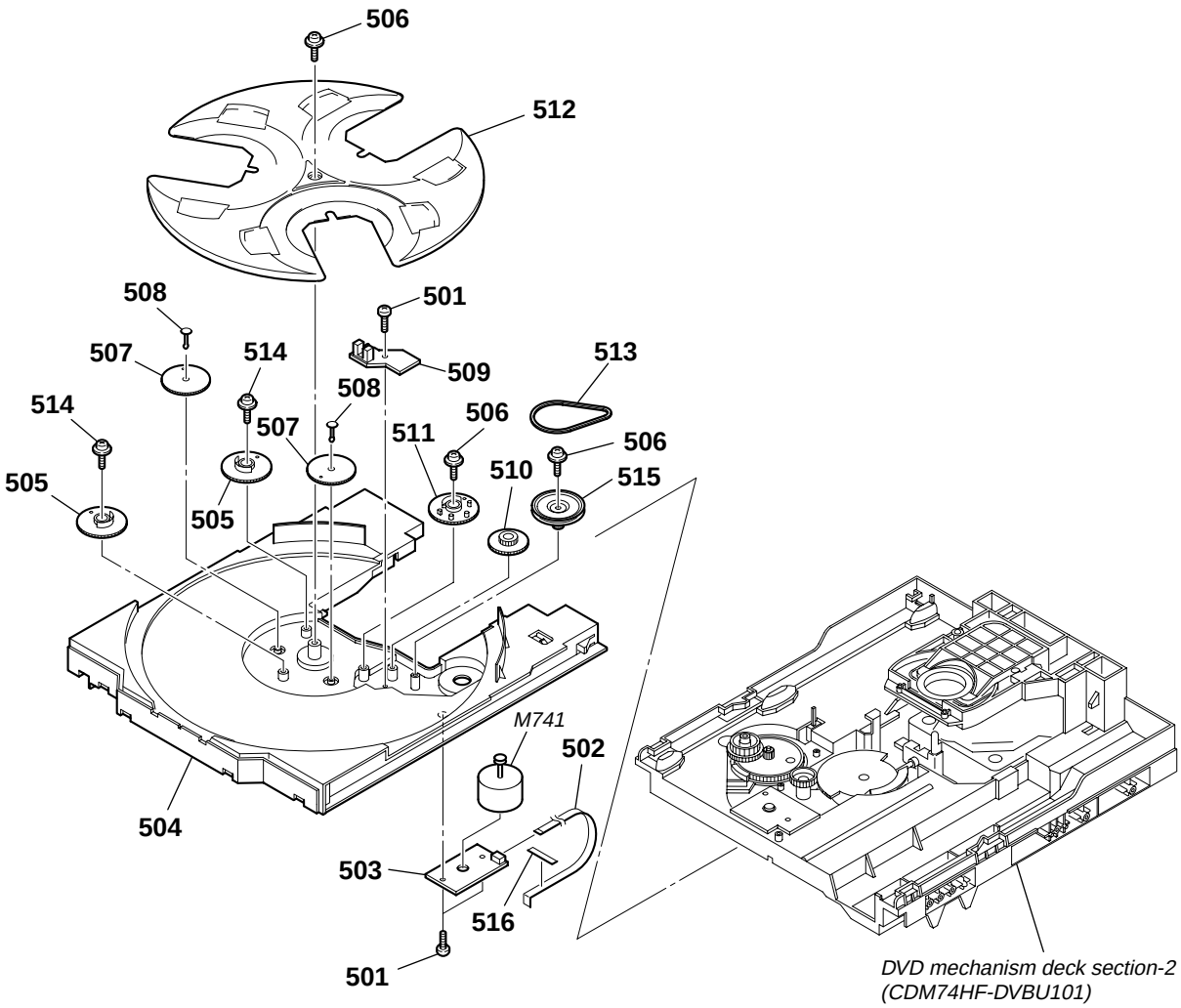
Ref. No.	Part No.	Description	Remark
257	A-1193-167-A	MAIN BOARD, COMPLETE (ZX80D: E2)	
257	A-1193-171-A	MAIN BOARD, COMPLETE (ZX100D: SP, MY)	
257	A-1193-174-A	MAIN BOARD, COMPLETE (ZX100D: E2)	
257	A-1193-435-A	MAIN BOARD, COMPLETE (ZX80D: E51)	
257	A-1193-438-A	MAIN BOARD, COMPLETE (ZX100D: E51)	
⚠258	1-777-071-53	CORD, POWER (ZX80D: E2, E3, E13, E51/ ZX100D: E2, E3, E51, SP, MY)	
⚠258	1-829-627-31	POWER-SUPPLY CORD (ZX80D: MX/ZX100D: MX)	
* 259	3-703-244-00	BUSHING (2104), CORD (ZX80D: E2, E3, E13, E51/ ZX100D: E2, E3, E51, SP, MY)	
259	3-703-571-11	BUSHING (S) (4516), CORD (ZX80D: MX/ ZX100D: MX)	
D656	8-719-073-32	DIODE D25XB60	
D658	8-719-066-42	DIODE RBV1306 (ZX80D)	
D658	8-719-073-32	DIODE D25XB60 (ZX100D)	
M502	1-763-372-11	FAN, DC	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

8-7. POWER TRANSFORMER SECTION



Ref. No.	Part No.	Description	Remark
301	A-1174-058-A	TRANS BOARD, COMPLETE (ZX100D: E2, E3, E51, SP, MY)	
301	A-1174-204-A	TRANS BOARD, COMPLETE (ZX80D: MX)	
301	A-1174-927-A	TRANS BOARD, COMPLETE (ZX80D: E2, E3, E13, E51)	
301	A-1174-928-A	TRANS BOARD, COMPLETE (ZX100D: MX)	
⚠F1241	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)	
⚠F1251	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)	
⚠F1261	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)	
⚠F1271	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)	
⚠F1281	1-532-465-33	FUSE (3.15A/250V)	
⚠F1291	1-532-465-33	FUSE (3.15A/250V)	
⚠T1200	1-443-977-11	POWER TRANSFORMER (ZX100D: E2, E3, E51, SP, MY)	
⚠T1200	1-443-978-11	POWER TRANSFORMER (ZX100D: MX)	
⚠T1200	1-445-024-11	POWER TRANSFORMER (ZX80D: E2, E3, E13, E51)	
⚠T1200	1-445-025-11	POWER TRANSFORMER (ZX80D: MX)	

8-8. DVD MECHANISM DECK SECTION-1 (CDM74HF-DVBU101)

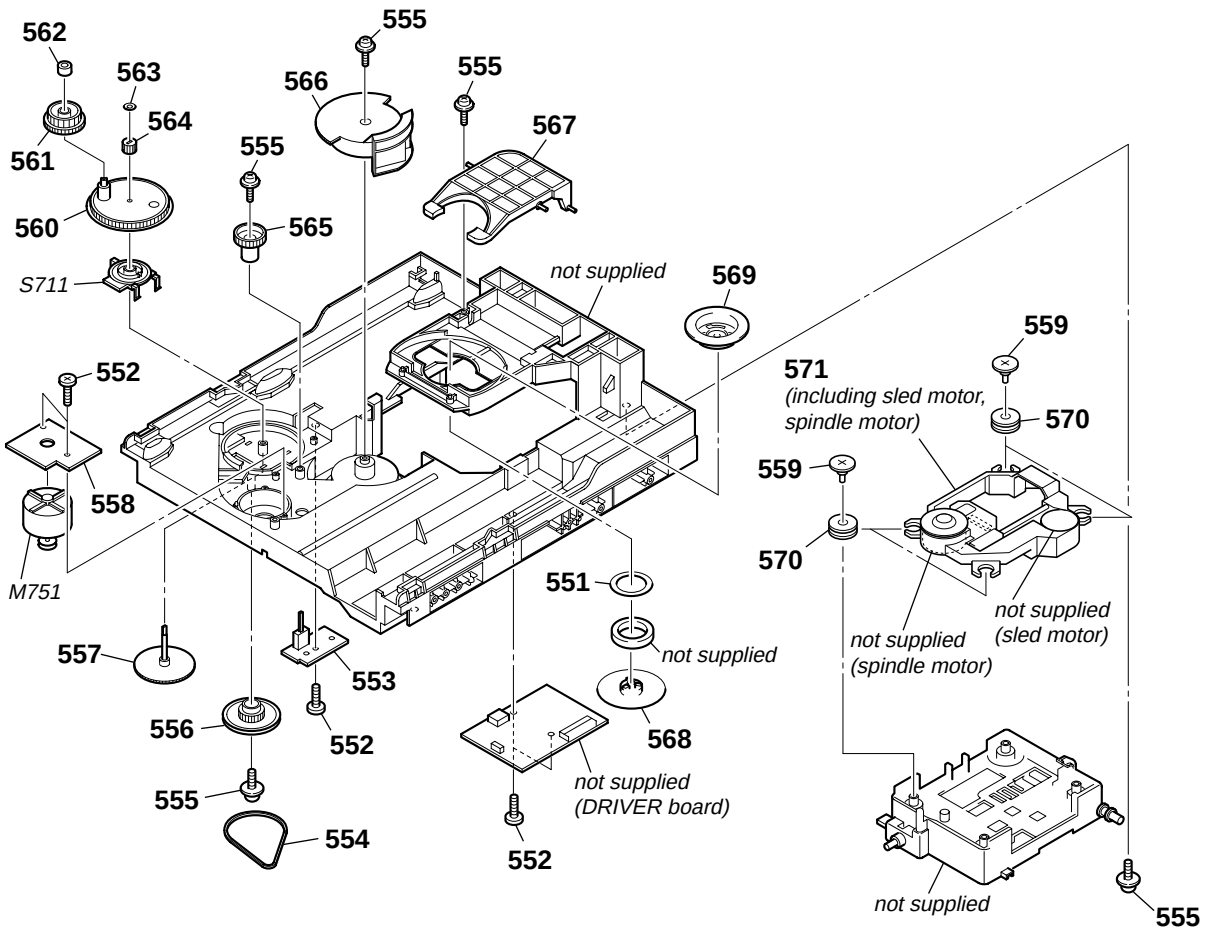


DVD mechanism deck section-2 (CDM74HF-DVBU101)

Ref. No.	Part No.	Description	Remark
501	4-218-253-42	SCREW (M2.6), +BTTP	
502	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
503	1-687-134-12	MOTOR (TB) BOARD	
504	4-243-815-11	TABLE (LOADING)	
505	4-245-571-02	GEAR (STOPPER)	
506	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING	
507	4-245-570-01	GEAR (JOINT)	
508	4-245-572-01	BUSHING (GEAR)	
509	1-687-132-12	SENSOR BOARD	

Ref. No.	Part No.	Description	Remark
510	4-243-820-01	GEAR (TABLE)	
511	4-243-819-01	GEAR (GENEVA)	
512	4-243-816-21	TRAY	
513	4-243-823-01	BELT (TABLE)	
514	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
515	4-243-821-01	PULLEY (TABLE)	
516	3-231-598-01	SHEET (BA)	
M741	A-1108-965-A	MOTOR ASSY, TABLE	

8-9. DVD MECHANISM DECK SECTION-2 (CDM74HF-DVBU101)



Note: Refer to the Servicing Notes "HOW TO IDENTIFY OPTICAL PICK-UP BLOCK" (pagr 4), if replacing the Ref. No. 571.

Ref. No.	Part No.	Description	Remark
551	4-251-923-01	YOKE (310)	
552	4-218-253-32	SCREW (M2.6), +BTTP	
553	1-687-669-12	SW BOARD	
554	4-244-034-01	BELT (LOADING)	
555	4-218-252-52	SCREW (+PTPWH M2.6), FLOATING	
556	4-225-844-01	GEAR (LOADING A)	
557	4-224-613-01	GEAR (SHAFT)	
558	1-687-133-12	MOTOR (LD) BOARD	
559	3-087-599-01	INSULATOR SCREW	
560	4-244-108-01	GEAR, SWING	
561	4-224-609-01	GEAR (LOADING C)	
562	4-224-608-01	COLLAR, SWING	
563	3-016-533-11	WASHER (FR), STOPPER	
564	4-224-611-01	GEAR (LOADING B)	

Ref. No.	Part No.	Description	Remark
565	4-224-606-01	GEAR (RV)	
566	4-243-818-01	GEAR (U/D)	
567	2-541-918-01	LEVER (LIFTER (H))	
568	2-345-982-01	PULLEY A (310), CHUCKING	
569	2-345-983-01	PULLEY B (310), CHUCKING	
570	2-634-618-01	INSULATOR	
⚠571	8-820-291-02	OPTICAL PICK-UP BLOCK (KHM-310CAB/C2RP) (Including sled motor, spindle motor)	
⚠571	8-820-322-04	OPTICAL PICK-UP BLOCK (KHM-313CAB/C2RP) (Including sled motor, spindle motor)	
M751	A-4737-553-A	MOTOR ASSY, LOADING	
S711	1-477-680-12	ENCODER, ROTARY (DISC TABLE ADDRESS DETECT)	

CD-SW DMB15

SECTION 9
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  E2 : 120V AC area in E model
  E3 : 240V AC area in E model
  E13 : Russian model and 220 – 230V AC area in E model
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA... : µA... uPA... : µPA...
  uPB... : µPB... uPC... : µPC...
  uPD... : µPD...
- CAPACITORS
  uF: µF
- COILS
  uH: µH
  E51 : Chilean and Peruvian models SP : Singapore model
  MX : Mexican model
  MY : Malaysia model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
		CD-SW BOARD			
		**********			
		< CONNECTOR >			
CN1152	1-568-850-11	SOCKET, CONNECTOR 7P			
		< RESISTOR >			
R1166	1-216-817-11	METAL CHIP	470	5%	1/10W
R1167	1-216-819-11	METAL CHIP	680	5%	1/10W
R1168	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1169	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1170	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
		< SWITCH >			
S1166	1-762-875-21	SWITCH, KEYBOARD (⏏ OPEN/CLOSE)			
S1167	1-762-875-21	SWITCH, KEYBOARD (EX-CHANGE/DISC SKIP)			
S1168	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S1169	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S1170	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
**********					
	A-1174-227-A	DMB15 BOARD, COMPLETE (ZX80D: MX/ZX100D: MX)			
	A-1174-274-A	DMB15 BOARD, COMPLETE (ZX80D: E3, E13/ZX100D: E3)			
	A-1193-183-A	DMB15 BOARD, COMPLETE (ZX100D: SP, MY)			
	A-1193-188-A	DMB15 BOARD, COMPLETE (ZX80D: E2, E51/ZX100D: E2, E51)			
		**********			
		< CAPACITOR >			
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C102	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C105	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C112	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C117	1-124-779-00	ELECT CHIP	10uF	20%	16V
C118	1-124-779-00	ELECT CHIP	10uF	20%	16V
C119	1-124-779-00	ELECT CHIP	10uF	20%	16V
C120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V

Ref. No.	Part No.	Description			Remark
C121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C128	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C129	1-124-779-00	ELECT CHIP	10uF	20%	16V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C147	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C148	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C150	1-124-779-00	ELECT CHIP	10uF	20%	16V
C151	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C152	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C153	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C159	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C167	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C170	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C171	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C173	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

New part of EEPROM (IC103) on the DMB15 board cannot be used. Therefore, if the mounted DMB15 board is replaced, exchange new EEPROM with that used before the replacement.

Ref. No.	Part No.	Description			Remark
C174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C177	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C178	1-126-208-21	ELECT CHIP	47uF	20%	4V
C179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C182	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C184	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C187	1-126-208-21	ELECT CHIP	47uF	20%	4V
C188	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C189	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C190	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C193	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C195	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C196	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C217	1-126-204-11	ELECT CHIP	47uF	20%	16V
C218	1-124-779-00	ELECT CHIP	10uF	20%	16V
C219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C220	1-124-779-00	ELECT CHIP	10uF	20%	16V
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C301	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C302	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C305	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C306	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C307	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C402	1-126-204-11	ELECT CHIP	47uF	20%	16V
C403	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3601	1-117-370-11	CERAMIC CHIP	10uF		10V
C3602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3605	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3607	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3608	1-124-779-00	ELECT CHIP	10uF	20%	16V
C3609	1-124-779-00	ELECT CHIP	10uF	20%	16V
C3610	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3611	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3621	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3701	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C3702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3704	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3705	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3707	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3708	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3711	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3712	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3713	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3714	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3721	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3722	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3723	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3724	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3731	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3732	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3733	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3734	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3741	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3742	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3743	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3744	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3751	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3752	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3753	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3754	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3761	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3762	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3763	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3764	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3771	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3772	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3773	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3774	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3781	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3782	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3783	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3784	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3801	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C3802	1-117-370-11	CERAMIC CHIP	10uF		10V
C3803	1-126-209-11	ELECT CHIP	100uF	20%	4V
C3804	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3805	1-126-208-21	ELECT CHIP	47uF	20%	4V

< CONNECTOR >

CN101	1-815-763-32	CONNECTOR, FFC/FPC 24P	
* CN105	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P	
CN106	1-793-989-21	FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 13P	
* CN201	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P	
CN301	1-793-989-21	FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 13P	
CN302	1-778-692-11	CONNECTOR, FFC/FPC 21P	
CN401	1-779-993-11	PIN, CONNECTOR (PWB) 5P	

< DIODE >

D1001	8-719-058-24	DIODE	RB501V-40TE-17
D3501	8-719-988-61	DIODE	1SS355TE-17
D3502	8-719-988-61	DIODE	1SS355TE-17

DMB15

Ref. No.	Part No.	Description	Remark
D3601	8-719-988-61	DIODE 1SS355TE-17	
D3602	8-719-988-61	DIODE 1SS355TE-17	
		< FERRITE BEAD >	
FB111	1-414-226-21	INDUCTOR, FERRITE BEAD	
FB112	1-414-226-21	INDUCTOR, FERRITE BEAD	
FB113	1-414-226-21	INDUCTOR, FERRITE BEAD	
FB114	1-414-226-21	INDUCTOR, FERRITE BEAD	
FB115	1-414-226-21	INDUCTOR, FERRITE BEAD	
FB401	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB402	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB403	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB404	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB405	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB406	1-469-324-21	FERRITE, EMI (SMD) (2012)	
		< FILTER >	
FL101	1-234-177-21	FILTER, CHIP EMI	
FL104	1-234-177-21	FILTER, CHIP EMI	
FL105	1-234-177-21	FILTER, CHIP EMI	
FL106	1-234-177-21	FILTER, CHIP EMI	
FL107	1-234-177-21	FILTER, CHIP EMI	
FL108	1-234-177-21	FILTER, CHIP EMI	
FL401	1-234-177-21	FILTER, CHIP EMI	
FL402	1-233-893-21	FILTER, CHIP EMI	
FL403	1-234-177-21	FILTER, CHIP EMI	
		< IC >	
IC101	6-806-614-01	IC S29AL032D70TF-CBA3-0601UC	(ZX80D: MX/ZX100D: MX)
IC101	6-806-820-01	IC MX29LV320CBTC70-CBA3-0604UC	(ZX80D: E2, E51/ZX100D: E2, E51)
IC101	6-806-821-01	IC MX29LV320CBTC70-CBA3-0604CE	(ZX80D: E3, E13/ZX100D: E3)
IC101	6-806-822-01	IC MX29LV320CBTC70-CBA3-0604GA	(ZX100D: SP, MY)
IC102	6-707-535-01	IC CXD9849R	
IC103	(Not supplied)	IC BR24L64F-WE2	
IC104	6-709-370-01	IC A2V64S40CTP-G75	
IC105	6-702-302-01	IC TK11133CSCL-G	
IC106	6-708-153-01	IC PQ018EN01ZPH	
IC107	6-702-302-01	IC TK11133CSCL-G	
IC201	6-704-524-01	IC FAN8036L	
IC301	6-704-222-01	IC AK4358VQ-L	
IC3601	6-707-608-01	IC PCM1803DBR	
IC3711	8-759-359-49	IC NJM3414AV (TE2)	
IC3731	8-759-359-49	IC NJM3414AV (TE2)	
IC3751	8-759-359-49	IC NJM3414AV (TE2)	
IC3771	8-759-359-49	IC NJM3414AV (TE2)	
		< COIL >	
L3601	1-469-555-21	INDUCTOR 10uH	
L3602	1-469-555-21	INDUCTOR 10uH	
		< TRANSISTOR >	
Q101	6-550-008-01	FET UM6K1N-TN	
Q102	6-550-653-01	TRANSISTOR QST8TR	
Q103	8-729-027-52	TRANSISTOR DTC124EKA-T146	

New part of EEPROM (IC103) on the DMB15 board cannot be used. Therefore, if the mounted DMB15 board is replaced, exchange new EEPROM with that used before the replacement.

Ref. No.	Part No.	Description			Remark
Q3801	8-729-230-49	TRANSISTOR 2SC2712-YG			
		< RESISTOR/FERRITE BEAD >			
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-864-11	SHORT CHIP	0		
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-857-11	METAL CHIP	1M	5%	1/10W
R109	1-216-864-11	SHORT CHIP	0		
R110	1-216-841-11	METAL CHIP	47K	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R117	1-216-841-11	METAL CHIP	47K	5%	1/10W
R118	1-216-801-11	METAL CHIP	22	5%	1/10W
R120	1-216-801-11	METAL CHIP	22	5%	1/10W
R121	1-216-801-11	METAL CHIP	22	5%	1/10W
R123	1-216-864-11	SHORT CHIP	0		
R124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R126	1-216-864-11	SHORT CHIP	0		
R127	1-216-809-11	METAL CHIP	100	5%	1/10W
R136	1-216-835-11	METAL CHIP	15K	5%	1/10W
R138	1-216-845-11	METAL CHIP	100K	5%	1/10W
R141	1-218-916-11	METAL CHIP	750K	0.5%	1/10W
R142	1-216-845-11	METAL CHIP	100K	5%	1/10W
R146	1-216-805-11	METAL CHIP	47	5%	1/10W
R151	1-216-805-11	METAL CHIP	47	5%	1/10W
R152	1-216-864-11	SHORT CHIP	0		
R153	1-216-805-11	METAL CHIP	47	5%	1/10W
R155	1-216-805-11	METAL CHIP	47	5%	1/10W
R160	1-216-805-11	METAL CHIP	47	5%	1/10W
R161	1-216-809-11	METAL CHIP	100	5%	1/10W
R164	1-216-809-11	METAL CHIP	100	5%	1/10W
R169	1-216-833-11	METAL CHIP	10K	5%	1/10W
R187	1-216-864-11	SHORT CHIP	0		
R189	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R190	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R191	1-216-821-11	METAL CHIP	1K	5%	1/10W
R192	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R193	1-216-821-11	METAL CHIP	1K	5%	1/10W
R195	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R196	1-216-864-11	SHORT CHIP	0		
R197	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R208	1-216-839-11	METAL CHIP	33K	5%	1/10W
R209	1-216-839-11	METAL CHIP	33K	5%	1/10W
R210	1-216-841-11	METAL CHIP	47K	5%	1/10W
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R214	1-216-835-11	METAL CHIP	15K	5%	1/10W
R215	1-216-834-11	METAL CHIP	12K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R216	1-216-834-11	METAL CHIP	12K	5%	1/10W
R219	1-216-838-11	METAL CHIP	27K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R314	1-216-809-11	METAL CHIP	100	5%	1/10W
R319	1-216-864-11	SHORT CHIP	0		
R321	1-216-864-11	SHORT CHIP	0		
R1101	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1102	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R1103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1108	1-216-864-11	SHORT CHIP	0		
R1109	1-216-864-11	SHORT CHIP	0		
R1110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1120	1-216-864-11	SHORT CHIP	0		
R1121	1-216-864-11	SHORT CHIP	0		
R1122	1-216-864-11	SHORT CHIP	0		
R1123	1-216-864-11	SHORT CHIP	0		
R1124	1-216-864-11	SHORT CHIP	0		
R1125	1-216-864-11	SHORT CHIP	0		
R1126	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1133	1-216-864-11	SHORT CHIP	0		
R1134	1-216-864-11	SHORT CHIP	0		
R1150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1161	1-216-864-11	SHORT CHIP	0		
R1168	1-216-817-11	METAL CHIP	470	5%	1/10W
R1502	1-216-864-11	SHORT CHIP	0		
R1504	1-400-244-11	BEAD, FERRITE (CHIP) (1608)			
R1524	1-216-864-11	SHORT CHIP	0		
R1526	1-216-864-11	SHORT CHIP	0		
R1527	1-216-864-11	SHORT CHIP	0		
R1530	1-216-864-11	SHORT CHIP	0		
R1531	1-216-864-11	SHORT CHIP	0		
R1540	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1542	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1543	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1544	1-216-864-11	SHORT CHIP	0		
R1546	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1547	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1549	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1550	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1553	1-216-864-11	SHORT CHIP	0		
R1554	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1557	1-216-809-11	METAL CHIP	100	5%	1/10W
R1559	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3504	1-216-809-11	METAL CHIP	100	5%	1/10W
R3505	1-216-809-11	METAL CHIP	100	5%	1/10W
R3601	1-216-809-11	METAL CHIP	100	5%	1/10W
R3602	1-216-809-11	METAL CHIP	100	5%	1/10W
R3603	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3605	1-216-864-11	SHORT CHIP	0		
R3606	1-216-864-11	SHORT CHIP	0		
R3607	1-216-864-11	SHORT CHIP	0		
R3609	1-216-864-11	SHORT CHIP	0		
R3611	1-216-809-11	METAL CHIP	100	5%	1/10W
R3621	1-216-809-11	METAL CHIP	100	5%	1/10W
R3651	1-216-864-11	SHORT CHIP	0		
R3652	1-216-864-11	SHORT CHIP	0		
R3653	1-216-864-11	SHORT CHIP	0		
R3711	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3712	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3713	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3714	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3715	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3716	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3717	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3718	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3719	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3721	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3722	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3723	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3724	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3725	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3726	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3727	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3728	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3729	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3731	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3732	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3733	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3734	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3735	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3736	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3737	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3738	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3739	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3741	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3742	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3743	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3744	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3745	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3746	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3747	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3748	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3749	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3751	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3752	1-216-823-11	METAL CHIP	1.5K	5%	1/10W

DMB15 **DRIVER**

Ref. No.	Part No.	Description			Remark
R3753	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3754	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3755	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3756	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3757	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3758	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3759	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3761	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3762	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3763	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3764	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3765	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3766	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3767	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3768	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3769	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3771	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3772	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3773	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3774	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3775	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3776	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3777	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3778	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3779	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3781	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3782	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3783	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3784	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3785	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3786	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3787	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3788	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3789	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3801	1-216-864-11	SHORT CHIP	0		
R3802	1-216-864-11	SHORT CHIP	0		
R3803	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3804	1-216-836-11	METAL CHIP	18K	5%	1/10W
R3805	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4701	1-216-864-11	SHORT CHIP	0		
R4702	1-216-864-11	SHORT CHIP	0		
R4703	1-216-864-11	SHORT CHIP	0		
R4704	1-216-864-11	SHORT CHIP	0		
R4705	1-216-864-11	SHORT CHIP	0		
R4706	1-216-864-11	SHORT CHIP	0		
R5008	1-216-864-11	SHORT CHIP	0		
R5011	1-216-864-11	SHORT CHIP	0		
R5014	1-216-864-11	SHORT CHIP	0 (ZX80D: E2, E51, MX/ZX100D: E2, E51, MX)		
R5016	1-216-864-11	SHORT CHIP	0 (ZX80D: E3, E13/ZX100D: E3)		
R5017	1-216-864-11	SHORT CHIP	0 (ZX100D: SP, MY)		
		< COMPOSITION CIRCUIT BLOCK >			
RB103	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB104	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB105	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB106	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB107	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB108	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB111	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB112	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB113	1-234-370-21	RES, NETWORK 22 (1005X4)			
		< VIBRATOR >			
X101	1-781-867-21	VIBRATOR, CRYSTAL (27MHz)			
**********					
		DRIVER BOARD **********			
		< CAPACITOR >			
C715	1-126-933-11	ELECT	100uF	20%	16V
C731	1-126-964-11	ELECT	10uF	20%	50V
C735	1-164-159-11	CERAMIC	0.1uF		50V
C736	1-164-159-11	CERAMIC	0.1uF		50V
C737	1-164-159-11	CERAMIC	0.1uF		50V
C741	1-162-306-11	CERAMIC	0.01uF	20%	16V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C752	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN701	1-784-735-11	CONNECTOR, FFC 13P			
CN702	1-784-766-11	CONNECTOR, FFC 5P			
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P			
		< DIODE >			
D701	8-719-947-16	DIODE MTZJ-T-72-5.1A			
D711	8-719-983-66	DIODE MTZJ-T-72-3.6B			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
IC712	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q731	8-729-029-66	TRANSISTOR	DTC114ESA		
		< RESISTOR >			
R701	1-249-413-11	CARBON	470	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-417-11	CARBON	1K	5%	1/4W
R712	1-247-847-11	CARBON	4.7K	5%	1/4W
R713	1-247-863-11	CARBON	22K	5%	1/4W
R721	1-247-847-11	CARBON	4.7K	5%	1/4W
R722	1-247-847-11	CARBON	4.7K	5%	1/4W
R723	1-247-847-11	CARBON	4.7K	5%	1/4W
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R733	1-249-417-11	CARBON	1K	5%	1/4W
R734	1-249-430-11	CARBON	12K	5%	1/4W
R736	1-249-412-11	CARBON	390	5%	1/4W
R751	1-247-847-11	CARBON	4.7K	5%	1/4W
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Ref. No.	Part No.	Description			Remark
	A-1173-807-A	EFFECTOR BOARD, COMPLETE (ZX80D: E2, E3, E13, E51/ZX100D: E2, E3, E51, SP, MY)			
	A-1174-198-A	EFFECTOR BOARD, COMPLETE (ZX80D: MX/ZX100D: MX)			
		**********			
		< CAPACITOR >			
C1511	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1512	1-136-165-00	FILM	0.1uF	5%	50V
C1513	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1514	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1515	1-126-947-11	ELECT	47uF	20%	35V
C1516	1-136-495-11	FILM	0.068uF	5%	50V
C1517	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1519	1-136-159-00	FILM	0.033uF	5%	50V
C1520	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1521	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1522	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1523	1-136-495-11	FILM	0.068uF	5%	50V
C1524	1-126-957-11	ELECT	0.22uF	20%	50V
C1525	1-126-957-11	ELECT	0.22uF	20%	50V
C1526	1-136-165-00	FILM	0.1uF	5%	50V
C1528	1-104-665-11	ELECT	100uF	20%	25V
C1529	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C1530	1-136-159-00	FILM	0.033uF	5%	50V
C1531	1-124-589-11	ELECT	47uF	20%	16V
C1532	1-136-495-11	FILM	0.068uF	5%	50V
C1533	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1534	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1535	1-136-159-00	FILM	0.033uF	5%	50V
C1536	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1537	1-136-165-00	FILM	0.1uF	5%	50V
C1539	1-136-495-11	FILM	0.068uF	5%	50V
C1540	1-126-957-11	ELECT	0.22uF	20%	50V
C1541	1-126-957-11	ELECT	0.22uF	20%	50V
C1542	1-130-479-00	MYLAR	0.0047uF	5%	50V
C1544	1-130-479-00	MYLAR	0.0047uF	5%	50V
C1545	1-126-964-11	ELECT	10uF	20%	50V
C1546	1-126-964-11	ELECT	10uF	20%	50V
C1548	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1552	1-126-964-11	ELECT	10uF	20%	50V
C1554	1-126-964-11	ELECT	10uF	20%	50V
C1555	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1559	1-126-964-11	ELECT	10uF	20%	50V
C1560	1-126-964-11	ELECT	10uF	20%	50V
C1561	1-126-964-11	ELECT	10uF	20%	50V
C1562	1-126-964-11	ELECT	10uF	20%	50V
C1568	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1570	1-126-964-11	ELECT	10uF	20%	50V
C1571	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1572	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1574	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1578	1-126-964-11	ELECT	10uF	20%	50V
C1584	1-104-665-11	ELECT	100uF	20%	25V
C1600	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1601	1-126-964-11	ELECT	10uF	20%	50V
C1602	1-126-964-11	ELECT	10uF	20%	50V
C2330	1-136-165-00	FILM	0.1uF	5%	50V
C2331	1-136-159-00	FILM	0.033uF	5%	50V
		< CONNECTOR >			
CN1502	1-779-287-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			
		< DIODE >			
D1502	8-719-069-56	DIODE	UDZSTE-176.2B		
D1503	6-501-193-01	DIODE	1SS355WTE-17		
D1504	6-501-193-01	DIODE	1SS355WTE-17		
D1505	6-501-193-01	DIODE	1SS355WTE-17		
D1506	6-501-193-01	DIODE	1SS355WTE-17		
D1507	6-501-193-01	DIODE	1SS355WTE-17		
D1508	6-501-193-01	DIODE	1SS355WTE-17		
		< IC >			
IC1501	8-759-496-41	IC	M65850FP-E1		
IC1502	6-709-217-01	IC	TC74LVX4051FT		
IC1503	6-709-217-01	IC	TC74LVX4051FT		
IC1504	8-759-496-41	IC	M65850FP-E1		
IC1505	8-759-710-97	IC	NJM4565M-D		
IC1506	6-709-218-01	IC	TC74LVX4052FT		
		< COIL >			
L1500	1-414-183-41	INDUCTOR	10uH		
		< TRANSISTOR >			
Q1500	8-729-055-10	FET	2SK3378ENTL		
Q1501	8-729-055-10	FET	2SK3378ENTL		
Q1502	8-729-055-10	FET	2SK3378ENTL		
Q1503	8-729-055-10	FET	2SK3378ENTL		
Q1504	8-729-055-10	FET	2SK3378ENTL		
Q1505	8-729-055-10	FET	2SK3378ENTL		
Q1506	8-729-055-10	FET	2SK3378ENTL		
Q1507	8-729-056-46	TRANSISTOR	2SC5053T100Q		
Q1508	8-729-055-10	FET	2SK3378ENTL		
Q1509	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q1510	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q1511	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q1512	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q1513	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q1514	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R1500	1-216-809-11	METAL CHIP	100	5%	1/10W
R1501	1-216-809-11	METAL CHIP	100	5%	1/10W
R1502	1-216-809-11	METAL CHIP	100	5%	1/10W
R1504	1-216-809-11	METAL CHIP	100	5%	1/10W
R1506	1-216-809-11	METAL CHIP	100	5%	1/10W
R1507	1-216-809-11	METAL CHIP	100	5%	1/10W
R1510	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1511	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1512	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1514	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1515	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1516	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1517	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1519	1-216-840-11	METAL CHIP	39K	5%	1/10W

EFFECTOR **FUNCTION**

Ref. No.	Part No.	Description			Remark
R1522	1-216-864-11	SHORT CHIP	0		
R1525	1-216-809-11	METAL CHIP	100	5%	1/10W
R1527	1-216-809-11	METAL CHIP	100	5%	1/10W
R1530	1-216-817-11	METAL CHIP	470	5%	1/10W
R1531	1-218-289-11	METAL CHIP	510	5%	1/10W
R1532	1-216-818-11	METAL CHIP	560	5%	1/10W
R1533	1-216-819-11	METAL CHIP	680	5%	1/10W
R1534	1-218-484-11	METAL CHIP	750	5%	1/10W
R1535	1-216-820-11	METAL CHIP	820	5%	1/10W
R1536	1-218-457-11	METAL CHIP	910	5%	1/10W
R1538	1-216-838-11	METAL CHIP	27K	5%	1/10W
R1539	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1540	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R1541	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1542	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R1543	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1544	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1545	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1546	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1547	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1549	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1550	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1552	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1553	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1554	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1555	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1556	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1557	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1558	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1559	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1560	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1561	1-216-840-11	METAL CHIP	39K	5%	1/10W
R1563	1-216-864-11	SHORT CHIP	0		
R1564	1-216-838-11	METAL CHIP	27K	5%	1/10W
R1565	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1566	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1567	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1568	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1569	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1570	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1571	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1572	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1573	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1574	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1575	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1576	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1577	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1578	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1579	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1580	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1581	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1582	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1583	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1588	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1589	1-216-803-11	METAL CHIP	33	5%	1/10W
R1590	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1591	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1592	1-216-864-11	SHORT CHIP	0		
R1593	1-216-864-11	SHORT CHIP	0		
R1594	1-216-864-11	SHORT CHIP	0		
R1595	1-216-864-11	SHORT CHIP	0		
R1596	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1597	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1598	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1599	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1600	1-216-838-11	METAL CHIP	27K	5%	1/10W
R1601	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1602	1-216-838-11	METAL CHIP	27K	5%	1/10W
R1603	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1604	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1605	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1606	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1607	1-216-837-11	METAL CHIP	22K	5%	1/10W
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	A-1174-314-A	FUNCTION BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C907	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
* CN901	1-569-934-11	SOCKET, CONNECTOR 17P			
		< HEADER >			
CNS902	1-820-050-11	BOARD TO BOARD HEADER (8P)			
		< LED >			
D1016	6-500-727-01	LED SLR-343DCT32 (DELAY)			
D1017	6-500-727-01	LED SLR-343DCT32 (CHORUS)			
D1020	6-500-727-01	LED SLR-343DCT32 (FLANGER)			
		< JUMPER RESISTOR >			
JR921	1-216-864-11	SHORT CHIP	0		
JR923	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q920	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
Q921	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
		< RESISTOR >			
R958	1-216-819-11	METAL CHIP	680	5%	1/10W
R959	1-216-821-11	METAL CHIP	1K	5%	1/10W
R960	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R961	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R962	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R963	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R972	1-216-821-11	METAL CHIP	1K	5%	1/10W
R973	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1001	1-216-817-11	METAL CHIP	470	5%	1/10W
R1002	1-216-819-11	METAL CHIP	680	5%	1/10W
R1003	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1004	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1005	1-216-823-11	METAL CHIP	1.5K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1006	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1014	1-216-817-11	METAL CHIP	470	5%	1/10W
R1015	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1016	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1018	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1019	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1186	1-216-814-11	METAL CHIP	270	5%	1/10W
		< SWITCH/ROTARY ENCODER >			
S901	1-762-875-21	SWITCH, KEYBOARD (PROGRESSIVE)			
S902	1-762-875-21	SWITCH, KEYBOARD (GROOVE)			
S903	1-762-875-21	SWITCH, KEYBOARD (EQ BAND)			
S904	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)			
S905	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)			
S906	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
S914	1-762-875-21	SWITCH, KEYBOARD (ENTER)			
S915	1-762-875-21	SWITCH, KEYBOARD (DELAY)			
S916	1-762-875-21	SWITCH, KEYBOARD (CHORUS)			
S917	1-762-875-21	SWITCH, KEYBOARD (FLANGER)			
S918	1-762-875-21	SWITCH, KEYBOARD (SOUND FIELD)			
S919	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)			
S920	1-762-875-21	SWITCH, KEYBOARD (AMP MENU)			
S928	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S970	1-418-725-61	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)			

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JOG BOARD
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		< CAPACITOR >			
C1150	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CNS903	1-562-573-31	SOCKET, CONNECTOR 8P			
		< LED >			
D919	8-719-064-63	LED SELU5823C-TP15 (VOLUME LEVEL 1)			
D920	8-719-064-63	LED SELU5823C-TP15 (VOLUME LEVEL 2)			
D921	8-719-064-63	LED SELU5823C-TP15 (VOLUME LEVEL 3)			
D922	8-719-064-63	LED SELU5823C-TP15 (VOLUME LEVEL 4)			
D923	8-719-064-63	LED SELU5823C-TP15 (VOLUME LEVEL 5)			
D924	8-719-064-63	LED SELU5823C-TP15 (VOLUME LEVEL 6)			
D925	8-719-064-63	LED SELU5823C-TP15 (VOLUME LEVEL 7)			
D926	8-719-064-63	LED SELU5823C-TP15 (VOLUME LEVEL 8)			
		< JUMPER RESISTOR >			
JR1	1-216-864-11	SHORT CHIP	0		
JR2	1-216-864-11	SHORT CHIP	0		
JR3	1-216-864-11	SHORT CHIP	0		
JR4	1-216-864-11	SHORT CHIP	0		
JR5	1-216-864-11	SHORT CHIP	0		
JR922	1-216-864-11	SHORT CHIP	0		
JR1096	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q911	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
Q912	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
Q913	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
Q915	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
		< RESISTOR >			
R1040	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1144	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1145	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1146	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1149	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1150	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1151	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1153	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1154	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1155	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1157	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1158	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1159	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1161	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1162	1-216-809-11	METAL CHIP	100	5%	1/10W
R1163	1-216-809-11	METAL CHIP	100	5%	1/10W
R1164	1-216-809-11	METAL CHIP	100	5%	1/10W
R1165	1-216-809-11	METAL CHIP	100	5%	1/10W
		< ROTARY ENCODER >			
S1161	1-479-203-11	ENCODER (ROTARY) (OPERATION DIAL)			

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	A-1193-305-A	KARAOKE BOARD, COMPLETE (ZX80D: E2, E3, E13, E51/ZX100D: E2, E3, E51, SP, MY)			
	A-1193-346-A	KARAOKE BOARD, COMPLETE (ZX80D: MX/ZX100D: MX)			
		**********			
		< CAPACITOR >			
C2000	1-104-665-11	ELECT	100uF	20%	25V
C2001	1-126-947-11	ELECT	47uF	20%	35V
C2002	1-126-947-11	ELECT	47uF	20%	35V
C2004	1-126-961-11	ELECT	2.2uF	20%	50V
C2005	1-126-947-11	ELECT	47uF	20%	35V
C2006	1-126-960-11	ELECT	1uF	20%	50V
C2007	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C2008	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C2009	1-126-947-11	ELECT	47uF	20%	35V
C2010	1-124-257-00	ELECT	2.2uF	20%	50V
C2011	1-126-947-11	ELECT	47uF	20%	35V
C2013	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C2015	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C2016	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< DIODE >			
D2000	6-501-193-01	DIODE 1SS355WTE-17			
D2001	6-501-193-01	DIODE 1SS355WTE-17			
D2002	6-501-193-01	DIODE 1SS355WTE-17			
D2003	6-501-193-01	DIODE 1SS355WTE-17			
D2006	6-501-193-01	DIODE 1SS355WTE-17			
D2007	6-501-193-01	DIODE 1SS355WTE-17			
D2008	6-501-193-01	DIODE 1SS355WTE-17			

KARAOKE **MAIN**

Ref. No.	Part No.	Description			Remark
		< IC >			
IC2000	8-759-545-66	IC NJM3414AMP (TE2)			
IC2001	8-759-700-07	IC NJM2903M			
IC2002	8-759-700-07	IC NJM2903M			
		< RESISTOR >			
R2000	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2001	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2002	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2004	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2005	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2007	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2008	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2009	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2010	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2011	1-216-864-11	SHORT CHIP	0		
R2012	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2014	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R2015	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2016	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2017	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2019	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2020	1-216-864-11	SHORT CHIP	0		
R2021	1-216-864-11	SHORT CHIP	0		
R2022	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2024	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2025	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2026	1-216-864-11	SHORT CHIP	0		
R2028	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2029	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2030	1-216-864-11	SHORT CHIP	0		
R2031	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2032	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R2034	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2035	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2036	1-216-864-11	SHORT CHIP	0		
R2037	1-216-864-11	SHORT CHIP	0		

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	A-1174-078-A	MAIN BOARD, COMPLETE (ZX80D: E3)
	A-1174-169-A	MAIN BOARD, COMPLETE (ZX80D: MX)
	A-1174-256-A	MAIN BOARD, COMPLETE (ZX100D: MX)
	A-1174-328-A	MAIN BOARD, COMPLETE (ZX100D: E3)
	A-1193-164-A	MAIN BOARD, COMPLETE (ZX80D: E13)
	A-1193-167-A	MAIN BOARD, COMPLETE (ZX80D: E2)
	A-1193-171-A	MAIN BOARD, COMPLETE (ZX100D: SP, MY)
	A-1193-174-A	MAIN BOARD, COMPLETE (ZX100D: E2)
	A-1193-435-A	MAIN BOARD, COMPLETE (ZX80D: E51)
	A-1193-438-A	MAIN BOARD, COMPLETE (ZX100D: E51)
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	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3

< CAPACITOR/RESISTOR >

C101	1-104-665-11	ELECT	100uF	20%	25V
C102	1-126-964-11	ELECT	10uF	20%	50V
C103	1-126-964-11	ELECT	10uF	20%	50V
C104	1-126-964-11	ELECT	10uF	20%	50V
C105	1-126-964-11	ELECT	10uF	20%	50V
C106	1-130-487-00	MYLAR	0.022uF	5%	50V
C107	1-130-487-00	MYLAR	0.022uF	5%	50V
C108	1-130-489-00	MYLAR	0.033uF	5%	50V
C109	1-126-960-11	ELECT	1uF	20%	50V
C110	1-137-150-11	FILM	0.01uF	5%	100V (ZX100D)
C110	1-137-438-11	MYLAR	0.0082uF	5%	50V (ZX80D)
C111	1-126-964-11	ELECT	10uF	20%	50V
C112	1-136-498-11	FILM	0.12uF	5%	50V
C113	1-136-171-00	FILM	0.33uF	5%	50V
C114	1-126-964-11	ELECT	10uF	20%	50V
C115	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C116	1-126-924-11	ELECT	330uF	20%	10V
C130	1-126-964-11	ELECT	10uF	20%	50V
C131	1-126-959-11	ELECT	0.47uF	20%	50V
C150	1-126-964-11	ELECT	10uF	20%	50V
C152	1-126-964-11	ELECT	10uF	20%	50V
C153	1-126-964-11	ELECT	10uF	20%	50V
C154	1-126-964-11	ELECT	10uF	20%	50V
C155	1-126-964-11	ELECT	10uF	20%	50V
C156	1-130-487-00	MYLAR	0.022uF	5%	50V
C157	1-130-487-00	MYLAR	0.022uF	5%	50V
C158	1-130-489-00	MYLAR	0.033uF	5%	50V
C159	1-126-960-11	ELECT	1uF	20%	50V
C160	1-137-150-11	FILM	0.01uF	5%	100V (ZX100D)
C160	1-137-438-11	MYLAR	0.0082uF	5%	50V (ZX80D)
C161	1-126-964-11	ELECT	10uF	20%	50V
C162	1-136-498-11	FILM	0.12uF	5%	50V
C163	1-136-171-00	FILM	0.33uF	5%	50V
C164	1-126-964-11	ELECT	10uF	20%	50V
C166	1-126-964-11	ELECT	10uF	20%	50V
C167	1-126-964-11	ELECT	10uF	20%	50V
C200	1-136-497-11	FILM	0.1uF	5%	50V
C201	1-136-497-11	FILM	0.1uF	5%	50V
C202	1-126-964-11	ELECT	10uF	20%	50V
C203	1-136-498-11	FILM	0.12uF	5%	50V
C204	1-136-171-00	FILM	0.33uF	5%	50V
C205	1-104-665-11	ELECT	100uF	20%	25V
C206	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C207	1-124-261-00	ELECT	10uF	20%	50V
C209	1-124-261-00	ELECT	10uF	20%	50V
C210	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C211	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C212	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C213	1-126-964-11	ELECT	10uF	20%	50V
C214	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C215	1-126-964-11	ELECT	10uF	20%	50V
C216	1-126-964-11	ELECT	10uF	20%	50V
C217	1-126-964-11	ELECT	10uF	20%	50V
C218	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C219	1-126-964-11	ELECT	10uF	20%	50V
C220	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C221	1-126-960-11	ELECT	1uF	20%	50V
C222	1-126-964-11	ELECT	10uF	20%	50V
C223	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C224	1-126-964-11	ELECT	10uF	20%	50V
C225	1-126-960-11	ELECT	1uF	20%	50V
C226	1-126-960-11	ELECT	1uF	20%	50V
C227	1-126-960-11	ELECT	1uF	20%	50V
C228	1-126-960-11	ELECT	1uF	20%	50V
C229	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C233	1-162-953-11	CERAMIC CHIP	100PF	5%	50V (ZX80D)
C234	1-126-964-11	ELECT	10uF	20%	50V (ZX80D)
C235	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C242	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C251	1-126-960-11	ELECT	1uF	20%	50V
C252	1-126-964-11	ELECT	10uF	20%	50V
C253	1-136-498-11	FILM	0.12uF	5%	50V
C254	1-136-171-00	FILM	0.33uF	5%	50V
C255	1-104-665-11	ELECT	100uF	20%	25V
C256	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C257	1-126-964-11	ELECT	10uF	20%	50V
C258	1-126-964-11	ELECT	10uF	20%	50V
C259	1-124-261-00	ELECT	10uF	20%	50V
C260	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C261	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C262	1-126-964-11	ELECT	10uF	20%	50V
C263	1-126-964-11	ELECT	10uF	20%	50V
C264	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C265	1-126-964-11	ELECT	10uF	20%	50V
C266	1-126-964-11	ELECT	10uF	20%	50V
C267	1-126-964-11	ELECT	10uF	20%	50V
C268	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C269	1-126-964-11	ELECT	10uF	20%	50V
C270	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C272	1-126-934-11	ELECT	220uF	20%	16V
C273	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C274	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C276	1-126-960-11	ELECT	1uF	20%	50V
C277	1-126-960-11	ELECT	1uF	20%	50V
C278	1-126-960-11	ELECT	1uF	20%	50V
C279	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C301	1-136-967-11	FILM	0.012uF	5%	100V
C303	1-136-497-11	FILM	0.1uF	5%	50V
C304	1-126-964-11	ELECT	10uF	20%	50V
C305	1-126-960-11	ELECT	1uF	20%	50V
C306	1-126-961-11	ELECT	2.2uF	20%	50V
C307	1-126-964-11	ELECT	10uF	20%	50V
C308	1-126-935-11	ELECT	470uF	20%	16V
C309	1-126-947-11	ELECT	47uF	20%	35V
C310	1-126-964-11	ELECT	10uF	20%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V
C314	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C325	1-126-964-11	ELECT	10uF	20%	50V
C326	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C328	1-137-427-11	MYLAR	120PF	5%	50V
C332	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C333	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C335	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C340	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C341	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C351	1-136-967-11	FILM	0.012uF	5%	100V
C352	1-126-947-11	ELECT	47uF	20%	35V
C353	1-136-497-11	FILM	0.1uF	5%	50V
C354	1-126-964-11	ELECT	10uF	20%	50V
C355	1-126-960-11	ELECT	1uF	20%	50V
C356	1-126-961-11	ELECT	2.2uF	20%	50V
C357	1-126-963-11	ELECT	4.7uF	20%	50V
C358	1-126-963-11	ELECT	4.7uF	20%	50V
C359	1-126-947-11	ELECT	47uF	20%	35V
C360	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C361	1-126-964-11	ELECT	10uF	20%	50V
C362	1-126-963-11	ELECT	4.7uF	20%	50V
C363	1-126-963-11	ELECT	4.7uF	20%	50V
C364	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C365	1-126-960-11	ELECT	1uF	20%	50V
C370	1-137-150-11	FILM	0.01uF	5%	100V
C371	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C372	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C373	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C374	1-126-947-11	ELECT	47uF	20%	35V
C376	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C377	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C378	1-137-427-11	MYLAR	120PF	5%	50V
C379	1-130-481-00	MYLAR	0.0068uF	5%	50V
C382	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C383	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C385	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C410	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C411	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C412	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C413	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C414	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C415	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C416	1-104-656-11	ELECT	2200uF	20%	6.3V
C431	1-126-964-11	ELECT	10uF	20%	50V
C462	1-104-665-11	ELECT	100uF	20%	25V
C464	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C501	1-126-964-11	ELECT	10uF	20%	50V
C502	1-136-497-11	FILM	0.1uF	5%	50V
C503	1-136-497-11	FILM	0.1uF	5%	50V
C504	1-126-964-11	ELECT	10uF	20%	50V
C505	1-126-961-11	ELECT	2.2uF	20%	50V
C506	1-126-961-11	ELECT	2.2uF	20%	50V
C507	1-126-961-11	ELECT	2.2uF	20%	50V
C508	1-126-961-11	ELECT	2.2uF	20%	50V
C509	1-126-961-11	ELECT	2.2uF	20%	50V
C510	1-126-961-11	ELECT	2.2uF	20%	50V
C511	1-126-961-11	ELECT	2.2uF	20%	50V
C512	1-126-157-11	ELECT	10uF	20%	16V (ZX80D: E2, E3, E13, E51/ ZX100D: E2, E3, E51, SP, MY)
C513	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C514	1-126-768-11	ELECT	2200uF	20%	16V
C515	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C516	1-126-927-11	ELECT	2200uF	20%	10V
C517	1-126-961-11	ELECT	2.2uF	20%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C518	1-126-926-11	ELECT	1000uF	20%	10V
C519	1-126-927-11	ELECT	2200uF	20%	10V
C520	1-126-964-11	ELECT	10uF	20%	50V
C521	1-126-964-11	ELECT	10uF	20%	50V
C523	1-126-961-11	ELECT	2.2uF	20%	50V
C524	1-126-961-11	ELECT	2.2uF	20%	50V
C525	1-126-926-11	ELECT	1000uF	20%	10V
C530	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C550	1-119-774-11	ELECT	100uF	20%	16V
C551	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C552	1-126-961-11	ELECT	2.2uF	20%	50V
C553	1-104-666-11	ELECT	220uF	20%	25V
C554	1-126-964-11	ELECT	10uF	20%	50V
C557	1-130-483-00	MYLAR	0.01uF	5%	50V
C558	1-130-483-00	MYLAR	0.01uF	5%	50V
C559	1-126-926-11	ELECT	1000uF	20%	10V
C562	1-126-935-11	ELECT	470uF	20%	16V
C563	1-126-935-11	ELECT	470uF	20%	16V
C564	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C565	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C566	1-111-235-61	ELECT	10000uF	20%	25V
C567	1-126-946-11	ELECT	6800uF	20%	25V
C568	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C569	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C570	1-130-483-00	MYLAR	0.01uF	5%	50V
C571	1-130-483-00	MYLAR	0.01uF	5%	50V
C580	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C581	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C583	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C584	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
* CN100	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P			
CN102	1-820-049-11	CONNECTOR (SUBWOOFER) (SYSTEM CONTROL) (ZX100D)			
CN105	1-691-765-11	PLUG (MICRO CONNECTOR) 3P (ZX100D)			
CN402	1-785-336-11	PIN, CONNECTOR (LIGHT ANGLE) 10P			
CN501	1-573-845-11	CONNECTOR, BOARD TO BOARD13P			
* CN502	1-774-876-21	CONNECTOR, BOARD TO BOARD 8P			
* CN503	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CN504	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
* CN505	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
CN506	1-784-731-11	CONNECTOR, FFC 9P			
* CN508	1-569-934-11	SOCKET, CONNECTOR 17P			
CN509	1-569-928-11	SOCKET, CONNECTOR 11P			
* CN510	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P			
CN511	1-784-735-11	CONNECTOR, FFC 13P			
CN512	1-779-287-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			
CN513	1-573-845-11	CONNECTOR, BOARD TO BOARD 13P			
* CN514	1-774-876-21	CONNECTOR, BOARD TO BOARD 8P			
CN520	1-779-281-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P			
CN521	1-779-289-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P			
CN580	1-564-506-11	PLUG, CONNECTOR 3P			
CN582	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D101	6-501-193-01	DIODE 1SS355WTE-17			
D102	6-501-193-01	DIODE 1SS355WTE-17			

Ref. No.	Part No.	Description	Remark
D136	8-719-069-55	DIODE UDZSTE-175.6B	
D325	8-719-083-60	DIODE UDZSTE-174.7B	
D340	6-501-193-01	DIODE 1SS355WTE-17	
D341	6-501-193-01	DIODE 1SS355WTE-17	
D342	6-501-193-01	DIODE 1SS355WTE-17	
D401	6-501-193-01	DIODE 1SS355WTE-17	
D402	6-501-193-01	DIODE 1SS355WTE-17	
D403	6-501-193-01	DIODE 1SS355WTE-17	
D411	6-501-193-01	DIODE 1SS355WTE-17	
D412	6-501-193-01	DIODE 1SS355WTE-17	
D501	6-501-193-01	DIODE 1SS355WTE-17	
D502	6-501-193-01	DIODE 1SS355WTE-17	
D503	6-501-193-01	DIODE 1SS355WTE-17	
D504	6-501-193-01	DIODE 1SS355WTE-17	
D505	6-501-193-01	DIODE 1SS355WTE-17	
D506	6-501-193-01	DIODE 1SS355WTE-17	
D507	6-501-193-01	DIODE 1SS355WTE-17	
D510	6-501-193-01	DIODE 1SS355WTE-17 (ZX80D)	
D511	6-501-193-01	DIODE 1SS355WTE-17 (ZX80D)	
D550	6-501-193-01	DIODE 1SS355WTE-17	
D551	6-501-193-01	DIODE 1SS355WTE-17 (ZX80D: E2, E3, E13, E51/ZX100D: E2, E3, E51, SP, MY)	
D560	8-719-500-60	DIODE D5SBA20	
D561	8-719-500-60	DIODE D5SBA20	
D581	8-719-978-33	DIODE DTZ-TT11-6.8B	
D582	8-719-069-56	DIODE UDZSTE-176.2B	
D583	8-719-071-54	DIODE HZU2.0BTRF	
D584	8-719-083-63	DIODE UDZSTE-1713B	
D585	6-500-522-21	DIODE 10EDB40-TB3	
D586	6-500-522-21	DIODE 10EDB40-TB3	
		< JUMPER RESISTOR >	
FB204	1-216-864-11	SHORT CHIP 0	
FB254	1-216-864-11	SHORT CHIP 0	
FB260	1-216-864-11	SHORT CHIP 0	
FB261	1-216-864-11	SHORT CHIP 0	
		< IC >	
IC101	6-703-650-11	IC M61529FP-D60G	
IC201	6-703-651-11	IC M61530FP-D60G	
IC301	6-702-130-01	IC HA12237F	
IC304	8-759-710-97	IC NJM4565M-D	
IC401	6-806-203-01	IC M30622MEP-A78FPU0	
IC501	6-705-809-01	IC BD4929G-TR	
IC507	8-759-653-07	IC PQ09RD21J00H	
IC550	6-703-610-01	IC RT8H015C-T112-1	
IC558	6-703-547-01	IC TA7805LS	
IC559	6-702-771-01	IC TA78033LS	
IC560	8-759-394-36	IC BA09T	
IC561	8-759-394-36	IC BA09T	
		< CONNECTOR/JACK >	
J103	1-820-048-11	CONNECTOR (LIGHTING) (D-LIGHT SYNC OUT)	
J201	1-770-272-11	JACK, PIN 2P (TV/SAT AUDIO IN)	
J202	1-770-272-11	JACK, PIN 2P (AUDIO OUT)	
J203	1-770-377-31	JACK, PIN 1P (SUBWOOFER OUT) (ZX80D)	

Ref. No.	Part No.	Description		Remark
		< JUMPER RESISTOR >		
JR100	1-216-296-11	SHORT CHIP	0	
JR101	1-216-864-11	SHORT CHIP	0	
JR102	1-216-864-11	SHORT CHIP	0	
JR104	1-216-864-11	SHORT CHIP	0	
JR105	1-216-864-11	SHORT CHIP	0	
JR200	1-216-864-11	SHORT CHIP	0	
JR201	1-216-864-11	SHORT CHIP	0	
JR202	1-216-864-11	SHORT CHIP	0	
JR204	1-216-296-11	SHORT CHIP	0	
JR205	1-216-296-11	SHORT CHIP	0	
JR208	1-216-864-11	SHORT CHIP	0	
JR218	1-216-864-11	SHORT CHIP	0	
JR219	1-216-864-11	SHORT CHIP	0 (ZX80D)	
JR222	1-216-864-11	SHORT CHIP	0	
JR300	1-216-296-11	SHORT CHIP	0	
JR301	1-216-864-11	SHORT CHIP	0	
JR302	1-216-864-11	SHORT CHIP	0	
JR303	1-216-864-11	SHORT CHIP	0	
JR304	1-216-864-11	SHORT CHIP	0	
JR305	1-216-296-11	SHORT CHIP	0	
JR310	1-216-296-11	SHORT CHIP	0	
JR340	1-216-864-11	SHORT CHIP	0	
JR359	1-216-864-11	SHORT CHIP	0	
JR361	1-216-864-11	SHORT CHIP	0	
JR400	1-216-296-11	SHORT CHIP	0	
JR401	1-216-864-11	SHORT CHIP	0	
JR404	1-216-864-11	SHORT CHIP	0	
JR406	1-216-864-11	SHORT CHIP	0	
JR407	1-216-864-11	SHORT CHIP	0	
JR430	1-216-864-11	SHORT CHIP	0	
JR431	1-216-296-11	SHORT CHIP	0	
JR432	1-216-296-11	SHORT CHIP	0	
JR433	1-216-864-11	SHORT CHIP	0	
JR435	1-216-864-11	SHORT CHIP	0	
JR500	1-216-864-11	SHORT CHIP	0	
JR501	1-216-296-11	SHORT CHIP	0	
JR502	1-216-864-11	SHORT CHIP	0	
JR503	1-216-864-11	SHORT CHIP	0	
JR504	1-216-864-11	SHORT CHIP	0	
JR505	1-216-864-11	SHORT CHIP	0	
JR506	1-216-864-11	SHORT CHIP	0	
JR507	1-216-296-11	SHORT CHIP	0	
JR508	1-216-864-11	SHORT CHIP	0	
JR509	1-216-864-11	SHORT CHIP	0	
JR510	1-216-864-11	SHORT CHIP	0	
JR513	1-216-864-11	SHORT CHIP	0 (ZX100D)	
JR514	1-216-864-11	SHORT CHIP	0	
JR515	1-216-296-11	SHORT CHIP	0 (ZX80D)	
JR516	1-216-864-11	SHORT CHIP	0 (ZX100D)	
JR520	1-216-864-11	SHORT CHIP	0	
JR531	1-216-296-11	SHORT CHIP	0	
JR532	1-216-296-11	SHORT CHIP	0	
JR541	1-216-296-11	SHORT CHIP	0	
JR542	1-216-864-11	SHORT CHIP	0	
JR543	1-216-296-11	SHORT CHIP	0	
JR544	1-216-296-11	SHORT CHIP	0	
JR545	1-216-864-11	SHORT CHIP	0	
		< COIL >		
L101	1-420-872-52	COIL, AIR-CORE (ZX100D)		
L102	1-420-872-52	COIL, AIR-CORE (ZX100D)		
L302	1-414-189-31	INDUCTOR	100uH	
L320	1-410-780-11	INDUCTOR	27mH	
L370	1-410-780-11	INDUCTOR	27mH	
L372	1-414-189-31	INDUCTOR	100uH	
		< TRANSISTOR >		
Q101	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q103	8-729-056-46	TRANSISTOR	2SC5053T100Q	
Q104	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q106	8-729-023-22	TRANSISTOR	2SD2114K	
Q117	8-729-023-22	TRANSISTOR	2SD2114K	
Q151	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q156	8-729-023-22	TRANSISTOR	2SD2114K	
Q167	8-729-023-22	TRANSISTOR	2SD2114K	
Q200	8-729-023-22	TRANSISTOR	2SD2114K	
Q202	8-729-023-22	TRANSISTOR	2SD2114K	
Q203	8-729-023-22	TRANSISTOR	2SD2114K	
Q204	8-729-023-22	TRANSISTOR	2SD2114K	
Q205	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R	
Q206	8-729-023-22	TRANSISTOR	2SD2114K	
Q207	8-729-023-22	TRANSISTOR	2SD2114K (ZX80D)	
Q208	6-551-287-01	TRANSISTOR	2SD2704K-T146 (ZX80D)	
Q250	8-729-023-22	TRANSISTOR	2SD2114K	
Q252	8-729-023-22	TRANSISTOR	2SD2114K	
Q253	8-729-023-22	TRANSISTOR	2SD2114K	
Q254	8-729-023-22	TRANSISTOR	2SD2114K	
Q255	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R	
Q256	8-729-023-22	TRANSISTOR	2SD2114K	
Q321	6-551-287-01	TRANSISTOR	2SD2704K-T146	
Q322	6-551-287-01	TRANSISTOR	2SD2704K-T146	
Q323	8-729-056-46	TRANSISTOR	2SC5053T100Q	
Q325	6-551-287-01	TRANSISTOR	2SD2704K-T146	
Q340	8-729-903-46	TRANSISTOR	2SB1132-P	
Q341	8-729-903-46	TRANSISTOR	2SB1132-P	
Q342	8-729-903-46	TRANSISTOR	2SB1132-P	
Q343	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q344	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q345	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q370	8-729-141-75	TRANSISTOR	2SD596DV345	
Q372	6-551-287-01	TRANSISTOR	2SD2704K-T146	
Q373	6-551-287-01	TRANSISTOR	2SD2704K-T146	
Q375	6-551-287-01	TRANSISTOR	2SD2704K-T146	
Q377	8-729-216-22	TRANSISTOR	2SA1162-G	
Q378	6-550-185-01	TRANSISTOR	RT1P137P-TP-1	
Q379	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q380	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q381	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q382	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q383	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q501	8-729-901-00	TRANSISTOR	DTC124EK	
Q503	8-729-027-43	TRANSISTOR	DTC114EKA-T146	

MAIN

Ref. No.	Part No.	Description			Remark
Q504	8-729-027-56	TRANSISTOR	DTC143TKA-T146 (ZX80D: E2, E3, E13, E51/ZX100D: E2, E3, E51, SP, MY)		
Q505	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
Q506	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q507	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
Q508	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q509	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
Q510	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q511	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
Q512	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q513	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q514	8-729-023-22	TRANSISTOR	2SD2114K		
Q515	8-729-027-56	TRANSISTOR	DTC143TKA-T146		
Q516	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
Q517	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q518	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q519	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
Q520	8-729-024-94	TRANSISTOR	2SB1565F		
Q521	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q522	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
Q523	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q524	8-729-901-00	TRANSISTOR	DTC124EK		
Q550	8-729-027-56	TRANSISTOR	DTC143TKA-T146 (ZX80D: E2, E3, E13, E51/ZX100D: E2, E3, E51, SP, MY)		
Q564	8-729-023-22	TRANSISTOR	2SD2114K		
Q578	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q579	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q581	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q582	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q585	8-729-026-68	TRANSISTOR	2SD2525 (TP)		
Q587	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q588	8-729-026-68	TRANSISTOR	2SD2525 (TP)		
Q589	8-729-230-49	TRANSISTOR	2SC2712-YG		
		< RESISTOR >			
R101	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R103	1-216-821-11	METAL CHIP	1K	5%	1/10W
R104	1-216-821-11	METAL CHIP	1K	5%	1/10W
R105	1-216-841-11	METAL CHIP	47K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R109	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W
R111	1-216-833-11	METAL CHIP	10K	5%	1/10W
R112	1-216-841-11	METAL CHIP	47K	5%	1/10W
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W
R114	1-216-833-11	METAL CHIP	10K	5%	1/10W
R115	1-216-821-11	METAL CHIP	1K	5%	1/10W
R116	1-216-809-11	METAL CHIP	100	5%	1/10W
R117	1-216-864-11	SHORT CHIP	0		
R120	1-216-864-11	SHORT CHIP	0		
R121	1-216-833-11	METAL CHIP	10K	5%	1/10W
R122	1-216-833-11	METAL CHIP	10K	5%	1/10W
R130	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R131	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R132	1-216-857-11	METAL CHIP	1M	5%	1/10W
R133	1-216-845-11	METAL CHIP	100K	5%	1/10W
R135	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R150	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R151	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R152	1-216-833-11	METAL CHIP	10K	5%	1/10W
R153	1-216-821-11	METAL CHIP	1K	5%	1/10W
R154	1-216-821-11	METAL CHIP	1K	5%	1/10W
R155	1-216-841-11	METAL CHIP	47K	5%	1/10W
R156	1-216-833-11	METAL CHIP	10K	5%	1/10W
R157	1-216-809-11	METAL CHIP	100	5%	1/10W
R158	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R159	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R160	1-216-833-11	METAL CHIP	10K	5%	1/10W
R161	1-216-833-11	METAL CHIP	10K	5%	1/10W
R162	1-216-841-11	METAL CHIP	47K	5%	1/10W
R163	1-216-833-11	METAL CHIP	10K	5%	1/10W
R164	1-216-833-11	METAL CHIP	10K	5%	1/10W
R165	1-216-821-11	METAL CHIP	1K	5%	1/10W
R166	1-216-809-11	METAL CHIP	100	5%	1/10W
R167	1-216-864-11	SHORT CHIP	0		
R200	1-216-833-11	METAL CHIP	10K	5%	1/10W
R202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R204	1-216-833-11	METAL CHIP	10K	5%	1/10W
R205	1-216-821-11	METAL CHIP	1K	5%	1/10W
R206	1-216-841-11	METAL CHIP	47K	5%	1/10W
R207	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R208	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R209	1-216-833-11	METAL CHIP	10K	5%	1/10W
R210	1-216-817-11	METAL CHIP	470	5%	1/10W
R211	1-216-841-11	METAL CHIP	47K	5%	1/10W
R212	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R214	1-216-841-11	METAL CHIP	47K	5%	1/10W
R215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R216	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R217	1-216-833-11	METAL CHIP	10K	5%	1/10W
R218	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R219	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-216-841-11	METAL CHIP	47K	5%	1/10W
R222	1-216-821-11	METAL CHIP	1K	5%	1/10W
R223	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R224	1-216-821-11	METAL CHIP	1K	5%	1/10W
R225	1-216-833-11	METAL CHIP	10K	5%	1/10W
R226	1-216-837-11	METAL CHIP	22K	5%	1/10W
R227	1-216-841-11	METAL CHIP	47K	5%	1/10W
R228	1-216-821-11	METAL CHIP	1K	5%	1/10W
R229	1-216-833-11	METAL CHIP	10K	5%	1/10W
R230	1-216-821-11	METAL CHIP	1K	5%	1/10W
R231	1-216-841-11	METAL CHIP	47K	5%	1/10W
R232	1-216-833-11	METAL CHIP	10K	5%	1/10W
R233	1-216-841-11	METAL CHIP	47K	5%	1/10W
R234	1-216-821-11	METAL CHIP	1K	5%	1/10W
R235	1-216-833-11	METAL CHIP	10K	5%	1/10W
R236	1-216-833-11	METAL CHIP	10K	5%	1/10W (ZX100D)

Ref. No.	Part No.	Description			Remark
R236	1-216-837-11	METAL CHIP	22K	5%	1/10W (ZX80D)
R237	1-216-841-11	METAL CHIP	47K	5%	1/10W
R238	1-216-864-11	SHORT CHIP	0		
R239	1-216-833-11	METAL CHIP	10K	5%	1/10W
R240	1-216-835-11	METAL CHIP	15K	5%	1/10W
R241	1-216-839-11	METAL CHIP	33K	5%	1/10W
R242	1-216-833-11	METAL CHIP	10K	5%	1/10W
R243	1-216-821-11	METAL CHIP	1K	5%	1/10W
R244	1-216-845-11	METAL CHIP	100K	5%	1/10W
R245	1-216-833-11	METAL CHIP	10K	5%	1/10W
R246	1-216-841-11	METAL CHIP	47K	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R248	1-216-845-11	METAL CHIP	100K	5%	1/10W (ZX80D)
R249	1-216-833-11	METAL CHIP	10K	5%	1/10W
R250	1-216-839-11	METAL CHIP	33K	5%	1/10W (ZX80D)
R251	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (ZX80D)
R252	1-216-833-11	METAL CHIP	10K	5%	1/10W (ZX80D)
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W (ZX80D)
R254	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R255	1-216-821-11	METAL CHIP	1K	5%	1/10W
R256	1-216-841-11	METAL CHIP	47K	5%	1/10W
R257	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R258	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R259	1-216-833-11	METAL CHIP	10K	5%	1/10W
R260	1-216-817-11	METAL CHIP	470	5%	1/10W
R261	1-216-841-11	METAL CHIP	47K	5%	1/10W
R262	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R263	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R264	1-216-841-11	METAL CHIP	47K	5%	1/10W
R265	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R266	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R267	1-216-833-11	METAL CHIP	10K	5%	1/10W
R268	1-216-821-11	METAL CHIP	1K	5%	1/10W
R269	1-216-833-11	METAL CHIP	10K	5%	1/10W
R270	1-216-841-11	METAL CHIP	47K	5%	1/10W
R271	1-216-833-11	METAL CHIP	10K	5%	1/10W
R272	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R273	1-216-833-11	METAL CHIP	10K	5%	1/10W
R274	1-216-821-11	METAL CHIP	1K	5%	1/10W
R275	1-216-833-11	METAL CHIP	10K	5%	1/10W
R276	1-216-837-11	METAL CHIP	22K	5%	1/10W
R277	1-216-841-11	METAL CHIP	47K	5%	1/10W
R278	1-216-821-11	METAL CHIP	1K	5%	1/10W
R279	1-216-833-11	METAL CHIP	10K	5%	1/10W
R280	1-216-821-11	METAL CHIP	1K	5%	1/10W
R281	1-216-841-11	METAL CHIP	47K	5%	1/10W
R282	1-216-833-11	METAL CHIP	10K	5%	1/10W
R283	1-216-841-11	METAL CHIP	47K	5%	1/10W
R284	1-216-821-11	METAL CHIP	1K	5%	1/10W
R285	1-216-833-11	METAL CHIP	10K	5%	1/10W
R286	1-216-833-11	METAL CHIP	10K	5%	1/10W (ZX100D)

Ref. No.	Part No.	Description			Remark
R286	1-216-837-11	METAL CHIP	22K	5%	1/10W (ZX80D)
R287	1-216-841-11	METAL CHIP	47K	5%	1/10W
R288	1-216-864-11	SHORT CHIP	0		
R289	1-216-833-11	METAL CHIP	10K	5%	1/10W
R290	1-216-835-11	METAL CHIP	15K	5%	1/10W
R291	1-216-839-11	METAL CHIP	33K	5%	1/10W
R292	1-216-833-11	METAL CHIP	10K	5%	1/10W
R293	1-216-821-11	METAL CHIP	1K	5%	1/10W
R294	1-216-845-11	METAL CHIP	100K	5%	1/10W
R295	1-216-833-11	METAL CHIP	10K	5%	1/10W
R296	1-216-841-11	METAL CHIP	47K	5%	1/10W
R297	1-216-821-11	METAL CHIP	1K	5%	1/10W
R298	1-216-833-11	METAL CHIP	10K	5%	1/10W
R299	1-216-833-11	METAL CHIP	10K	5%	1/10W
R300	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R301	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R303	1-216-833-11	METAL CHIP	10K	5%	1/10W
R304	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R305	1-216-841-11	METAL CHIP	47K	5%	1/10W
R306	1-216-837-11	METAL CHIP	22K	5%	1/10W
R307	1-216-857-11	METAL CHIP	1M	5%	1/10W
R308	1-216-809-11	METAL CHIP	100	5%	1/10W
R309	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R310	1-216-809-11	METAL CHIP	100	5%	1/10W
R311	1-216-809-11	METAL CHIP	100	5%	1/10W
R312	1-216-809-11	METAL CHIP	100	5%	1/10W
R314	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R315	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R316	1-216-841-11	METAL CHIP	47K	5%	1/10W
R317	1-216-837-11	METAL CHIP	22K	5%	1/10W
R318	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R319	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R320	1-216-839-11	METAL CHIP	33K	5%	1/10W
R321	1-216-839-11	METAL CHIP	33K	5%	1/10W
R322	1-216-841-11	METAL CHIP	47K	5%	1/10W
R325	1-216-819-11	METAL CHIP	680	5%	1/10W
R329	1-216-845-11	METAL CHIP	100K	5%	1/10W
R330	1-216-821-11	METAL CHIP	1K	5%	1/10W
R335	1-216-821-11	METAL CHIP	1K	5%	1/10W
R336	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R337	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R338	1-216-833-11	METAL CHIP	10K	5%	1/10W
R339	1-216-835-11	METAL CHIP	15K	5%	1/10W
R340	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R341	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R342	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R343	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R344	1-216-819-11	METAL CHIP	680	5%	1/10W
R345	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R346	1-216-819-11	METAL CHIP	680	5%	1/10W
R347	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R348	1-216-819-11	METAL CHIP	680	5%	1/10W
R349	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R350	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R351	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R352	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R353	1-216-833-11	METAL CHIP	10K	5%	1/10W
R354	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R355	1-216-841-11	METAL CHIP	47K	5%	1/10W
R356	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R357	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R358	1-216-839-11	METAL CHIP	33K	5%	1/10W
R359	1-216-839-11	METAL CHIP	33K	5%	1/10W
R360	1-216-838-11	METAL CHIP	27K	5%	1/10W
R361	1-216-838-11	METAL CHIP	27K	5%	1/10W
R364	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R365	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R366	1-216-833-11	METAL CHIP	10K	5%	1/10W
R368	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R369	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R370	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R371	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R372	1-216-864-11	SHORT CHIP	0		
R373	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R374	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R375	1-216-864-11	SHORT CHIP	0		
R376	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R377	1-216-805-11	METAL CHIP	47	5%	1/10W
R378	1-216-833-11	METAL CHIP	10K	5%	1/10W
R379	1-216-797-11	METAL CHIP	10	5%	1/10W
R380	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R381	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R382	1-216-841-11	METAL CHIP	47K	5%	1/10W
R383	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R384	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R385	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R386	1-216-803-11	METAL CHIP	33	5%	1/10W
R387	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R388	1-216-833-11	METAL CHIP	10K	5%	1/10W
R389	1-216-835-11	METAL CHIP	15K	5%	1/10W
R390	1-216-833-11	METAL CHIP	10K	5%	1/10W
R391	1-216-821-11	METAL CHIP	1K	5%	1/10W
R392	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R394	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R395	1-216-841-11	METAL CHIP	47K	5%	1/10W
R396	1-216-833-11	METAL CHIP	10K	5%	1/10W
R399	1-216-833-11	METAL CHIP	10K	5%	1/10W
R400	1-216-833-11	METAL CHIP	10K	5%	1/10W
R401	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R403	1-216-833-11	METAL CHIP	10K	5%	1/10W
R404	1-216-833-11	METAL CHIP	10K	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R408	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-851-11	METAL CHIP	330K	5%	1/10W
R412	1-216-845-11	METAL CHIP	100K	5%	1/10W
R413	1-216-864-11	SHORT CHIP	0		
R414	1-216-809-11	METAL CHIP	100	5%	1/10W
R415	1-216-809-11	METAL CHIP	100	5%	1/10W
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R418	1-216-809-11	METAL CHIP	100	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W
R420	1-216-821-11	METAL CHIP	1K	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W
R422	1-216-809-11	METAL CHIP	100	5%	1/10W
R423	1-216-809-11	METAL CHIP	100	5%	1/10W
R424	1-216-809-11	METAL CHIP	100	5%	1/10W
R425	1-216-809-11	METAL CHIP	100	5%	1/10W
R426	1-216-809-11	METAL CHIP	100	5%	1/10W
R427	1-216-833-11	METAL CHIP	10K	5%	1/10W
R428	1-216-833-11	METAL CHIP	10K	5%	1/10W
R429	1-216-809-11	METAL CHIP	100	5%	1/10W
R430	1-216-809-11	METAL CHIP	100	5%	1/10W
R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W
R433	1-216-809-11	METAL CHIP	100	5%	1/10W
R434	1-216-809-11	METAL CHIP	100	5%	1/10W
R435	1-216-809-11	METAL CHIP	100	5%	1/10W
R436	1-216-833-11	METAL CHIP	10K	5%	1/10W
R437	1-216-833-11	METAL CHIP	10K	5%	1/10W
R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R439	1-216-809-11	METAL CHIP	100	5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-809-11	METAL CHIP	100	5%	1/10W
R443	1-216-809-11	METAL CHIP	100	5%	1/10W
R444	1-216-809-11	METAL CHIP	100	5%	1/10W
R445	1-216-809-11	METAL CHIP	100	5%	1/10W
R447	1-216-809-11	METAL CHIP	100	5%	1/10W
R448	1-216-809-11	METAL CHIP	100	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R451	1-216-809-11	METAL CHIP	100	5%	1/10W
R453	1-216-809-11	METAL CHIP	100	5%	1/10W
R454	1-216-809-11	METAL CHIP	100	5%	1/10W
R457	1-216-809-11	METAL CHIP	100	5%	1/10W
R458	1-216-809-11	METAL CHIP	100	5%	1/10W
R463	1-216-809-11	METAL CHIP	100	5%	1/10W
R466	1-216-833-11	METAL CHIP	10K	5%	1/10W
R467	1-216-809-11	METAL CHIP	100	5%	1/10W
R468	1-216-809-11	METAL CHIP	100	5%	1/10W
R469	1-216-809-11	METAL CHIP	100	5%	1/10W
R470	1-216-809-11	METAL CHIP	100	5%	1/10W
R471	1-216-833-11	METAL CHIP	10K	5%	1/10W
R472	1-216-809-11	METAL CHIP	100	5%	1/10W
R473	1-216-809-11	METAL CHIP	100	5%	1/10W
R474	1-216-809-11	METAL CHIP	100	5%	1/10W
R475	1-216-809-11	METAL CHIP	100	5%	1/10W
R478	1-216-821-11	METAL CHIP	1K	5%	1/10W
R479	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R480	1-217-637-00	FUSIBLE	1	5%	1/4W F (ZX100D)
R481	1-216-809-11	METAL CHIP	100	5%	1/10W (ZX100D)
R482	1-216-809-11	METAL CHIP	100	5%	1/10W (ZX100D)
R483	1-216-809-11	METAL CHIP	100	5%	1/10W
R484	1-216-833-11	METAL CHIP	10K	5%	1/10W
R485	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R486	1-216-809-11	METAL CHIP	100	5%	1/10W
R487	1-216-833-11	METAL CHIP	10K	5%	1/10W
R488	1-216-809-11	METAL CHIP	100	5%	1/10W
R489	1-216-809-11	METAL CHIP	100	5%	1/10W
R490	1-216-809-11	METAL CHIP	100	5%	1/10W
R491	1-216-809-11	METAL CHIP	100	5%	1/10W
R492	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R493	1-216-815-11	METAL CHIP	330	5%	1/10W
					(ZX80D: E3/ZX100D: E3)
R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
					(ZX80D: E2, E13, E51, MX/ZX100D: E2, E51, MX)
R493	1-216-864-11	SHORT CHIP	0 (ZX100D: SP, MY)		
R494	1-216-809-11	METAL CHIP	100	5%	1/10W
R496	1-216-809-11	METAL CHIP	100	5%	1/10W
R499	1-216-809-11	METAL CHIP	100	5%	1/10W
R500	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R501	1-216-813-11	METAL CHIP	220	5%	1/10W
R502	1-216-821-11	METAL CHIP	1K	5%	1/10W
R503	1-216-864-11	SHORT CHIP	0		
R505	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R506	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R507	1-216-833-11	METAL CHIP	10K	5%	1/10W
R508	1-216-853-11	METAL CHIP	470K	5%	1/10W
R509	1-216-843-11	METAL CHIP	68K	5%	1/10W
R510	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R511	1-216-853-11	METAL CHIP	470K	5%	1/10W
R512	1-216-843-11	METAL CHIP	68K	5%	1/10W
R513	1-216-835-11	METAL CHIP	15K	5%	1/10W
R514	1-216-853-11	METAL CHIP	470K	5%	1/10W
R515	1-216-843-11	METAL CHIP	68K	5%	1/10W
R516	1-216-835-11	METAL CHIP	15K	5%	1/10W
R517	1-216-841-11	METAL CHIP	47K	5%	1/10W
R518	1-216-833-11	METAL CHIP	10K	5%	1/10W
R519	1-216-821-11	METAL CHIP	1K	5%	1/10W
R520	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(ZX80D: E2, E3, E13, E51/ZX100D: E2, E3, E51, SP, MY)
R521	1-216-864-11	SHORT CHIP	0 (ZX80D: MX/ZX100D: MX)		
R522	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R523	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R524	1-216-833-11	METAL CHIP	10K	5%	1/10W
R525	1-216-833-11	METAL CHIP	10K	5%	1/10W
R526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R527	1-216-841-11	METAL CHIP	47K	5%	1/10W
R528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R529	1-216-835-11	METAL CHIP	15K	5%	1/10W
R530	1-216-843-11	METAL CHIP	68K	5%	1/10W
R531	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
					(ZX80D: E2/ZX100D: E2)
R531	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
					(ZX80D: E3, E13, E51, MX/ZX100D: E3, E51, MX, SP, MY)
R532	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R533	1-216-833-11	METAL CHIP	10K	5%	1/10W
R534	1-216-833-11	METAL CHIP	10K	5%	1/10W
R535	1-216-833-11	METAL CHIP	10K	5%	1/10W
R536	1-216-833-11	METAL CHIP	10K	5%	1/10W
R537	1-216-853-11	METAL CHIP	470K	5%	1/10W
R538	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
					(ZX80D: E2, E3, E13, E51/ZX100D: E2, E3, E51, SP, MY)
R539	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R540	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(ZX80D: E2, E3, E13, E51/ZX100D: E2, E3, E51, SP, MY)
R549	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R551	1-216-842-11	METAL CHIP	56K	5%	1/10W
					(ZX80D: E3, E13, E51, MX/ZX100D: E3, E51, MX, SP, MY)
R552	1-216-843-11	METAL CHIP	68K	5%	1/10W
R553	1-216-853-11	METAL CHIP	470K	5%	1/10W
R554	1-216-835-11	METAL CHIP	15K	5%	1/10W
R573	1-216-833-11	METAL CHIP	10K	5%	1/10W
R574	1-216-833-11	METAL CHIP	10K	5%	1/10W
R575	1-216-833-11	METAL CHIP	10K	5%	1/10W
R576	1-216-821-11	METAL CHIP	1K	5%	1/10W
R577	1-216-841-11	METAL CHIP	47K	5%	1/10W
R578	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R579	1-215-889-00	METAL OXIDE	330	5%	2W F
R581	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
					(ZX80D: E2/ZX100D: E2)
R581	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
					(ZX80D: E3, E13, E51, MX/ZX100D: E3, E51, MX, SP, MY)
R582	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R584	1-216-833-11	METAL CHIP	10K	5%	1/10W
R585	1-216-821-11	METAL CHIP	1K	5%	1/10W
R586	1-216-821-11	METAL CHIP	1K	5%	1/10W
R589	1-216-821-11	METAL CHIP	1K	5%	1/10W
R590	1-216-845-11	METAL CHIP	100K	5%	1/10W
R592	1-216-819-11	METAL CHIP	680	5%	1/10W
					(ZX80D)
R592	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(ZX100D)
R593	1-216-811-11	METAL CHIP	150	5%	1/10W
					(ZX80D: E13)
R593	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(ZX80D: E2, E51, MX/ZX100D: E2, E51, MX)
R593	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
					(ZX80D: E3/ZX100D: E3)
R594	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R595	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R598	1-245-711-31	CARBON	10	5%	1/2W
					(ZX100D)
R599	1-245-711-31	CARBON	10	5%	1/2W
					(ZX100D)
R601	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(ZX80D)
R602	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(ZX80D)
R612	1-216-864-11	SHORT CHIP	0		
R623	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R662	1-216-864-11	SHORT CHIP	0		
		< TRANSFORMER >			
T301	1-433-372-11	TRANSFORMER, BIAS OSCILLATION			

MAIN **MIC**

Ref. No.	Part No.	Description			Remark
		< TERMINAL >			
TM101	1-780-170-21	TERMINAL BOARD (SPEAKER) (SUBWOOFER OUT) (ZX100D)			
		< VIBRATOR >			
X401	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)			
X402	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			
**********					
	A-1174-047-A	MIC BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1100	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1102	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1103	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1104	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1105	1-126-956-11	ELECT	0.1uF	20%	50V
C1106	1-126-163-11	ELECT	4.7uF	20%	50V
C1107	1-126-163-11	ELECT	4.7uF	20%	50V
C1108	1-126-160-11	ELECT	1uF	20%	50V
C1109	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1110	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1111	1-126-957-11	ELECT	0.22uF	20%	50V
C1112	1-126-160-11	ELECT	1uF	20%	50V
C1113	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C1114	1-126-163-11	ELECT	4.7uF	20%	50V
C1115	1-126-963-11	ELECT	4.7uF	20%	50V
C1116	1-126-947-11	ELECT	47uF	20%	35V
C1117	1-126-947-11	ELECT	47uF	20%	35V
C1119	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1121	1-126-957-11	ELECT	0.22uF	20%	50V
C1122	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1123	1-126-947-11	ELECT	47uF	20%	35V
C1124	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C1125	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1126	1-126-934-11	ELECT	220uF	20%	16V
C1127	1-126-964-11	ELECT	10uF	20%	50V
C1128	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1129	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1133	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1134	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C1135	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C1139	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1142	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1144	1-124-261-00	ELECT	10uF	20%	50V
C1145	1-124-261-00	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN1102	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			
		< DIODE >			
D1100	6-501-193-01	DIODE 1SS355WTE-17			
D1101	6-501-193-01	DIODE 1SS355WTE-17			
D1102	8-719-069-54	DIODE UDZSTE-175.1B			
D1103	8-719-988-61	DIODE 1SS355TE-17			
D1104	8-719-988-61	DIODE 1SS355TE-17			

Ref. No.	Part No.	Description			Remark
		< FERRITE BEAD/JUMPER RESISOR >			
FB902	1-469-147-21	FERRITE, EMI (SMD) (2012)			
FB1100	1-216-864-11	SHORT CHIP	0		
FB1101	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC1100	6-709-116-01	IC TC9488FG			
IC1101	8-759-710-97	IC NJM4565M-D			
		< JACK >			
J1100	1-817-630-11	JACK (LARGE TYPE) (MIC 1)			
J1101	1-817-630-11	JACK (LARGE TYPE) (MIC 2)			
J1102	1-764-592-11	JACK 3P (VIDEO INPUT AUDIO/VIDEO)			
J1103	1-794-702-11	JACK, HEADPHONE (PHONES)			
		< RESISTOR >			
R1100	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1102	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1103	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1104	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1105	1-216-809-11	METAL CHIP	100	5%	1/10W
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W
R1107	1-216-809-11	METAL CHIP	100	5%	1/10W
R1108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1109	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1110	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1111	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1113	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1114	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1115	1-216-815-11	METAL CHIP	330	5%	1/10W
R1116	1-216-815-11	METAL CHIP	330	5%	1/10W
R1118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1119	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1120	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1121	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1122	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1123	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1124	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1126	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1127	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1128	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1130	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1131	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1132	1-216-864-11	SHORT CHIP	0		
R1137	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1138	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1139	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1140	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1147	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1152	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1156	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
		< VARIABLE RESISTOR >			
RV1100	1-227-452-11	RES, VAR, CARBON 50K (ECHO LEVEL)			
RV1101	1-227-452-11	RES, VAR, CARBON 50K (MIC 2 LEVEL)			
RV1102	1-227-452-11	RES, VAR, CARBON 50K (MIC 1 LEVEL)			
**********					

Ref. No.	Part No.	Description			Remark
	1-687-133-12	MOTOR (LD) BOARD			
		**********			
**********					
	1-687-134-12	MOTOR (TB) BOARD			
		**********			
		< CONNECTOR >			
CN742	1-784-727-11	CONNECTOR, FFC 5P			
**********					
	A-1174-202-A	PA BOARD, COMPLETE (ZX80D: MX)			
	A-1174-267-A	PA BOARD, COMPLETE (ZX100D: MX)			
	A-1174-326-A	PA BOARD, COMPLETE (ZX80D: E3, E13)			
	A-1174-337-A	PA BOARD, COMPLETE (ZX100D: E3, SP, MY)			
	A-1193-201-A	PA BOARD, COMPLETE (ZX80D: E2, E51)			
	A-1193-204-A	PA BOARD, COMPLETE (ZX100D: E2, E51)			
		**********			
		< CAPACITOR >			
C600	1-126-963-11	ELECT	4.7uF	20%	50V
C601	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C602	1-126-934-11	ELECT	220uF	20%	16V
C603	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C604	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C605	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C606	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C608	1-126-965-11	ELECT	22uF	20%	50V
C609	1-128-582-11	ELECT	10uF	20%	100V
C610	1-128-582-11	ELECT	10uF	20%	100V
C616	1-136-495-11	FILM	0.068uF	5%	50V
C617	1-136-495-11	FILM	0.068uF	5%	50V
C618	1-128-560-11	ELECT	22uF	20%	100V
C619	1-128-560-11	ELECT	22uF	20%	100V
C634	1-104-665-11	ELECT	100uF	20%	25V
C635	1-104-665-11	ELECT	100uF	20%	25V
C636	1-107-721-11	ELECT	4.7uF	20%	100V
C637	1-107-721-11	ELECT	4.7uF	20%	100V
C648	1-104-665-11	ELECT	100uF	20%	25V
C649	1-126-964-11	ELECT	10uF	20%	50V
C650	1-126-963-11	ELECT	4.7uF	20%	50V
C651	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C652	1-126-934-11	ELECT	220uF	20%	16V
C653	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C654	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C655	1-126-964-11	ELECT	10uF	20%	50V
C656	1-127-815-11	ELECT	3300uF	20%	100V
C658	1-112-032-11	ELECT	4700uF	20%	63V
C660	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C666	1-136-495-11	FILM	0.068uF	5%	50V
C667	1-136-495-11	FILM	0.068uF	5%	50V
C676	1-127-815-11	ELECT	3300uF	20%	100V
C678	1-112-032-11	ELECT	4700uF	20%	63V
C681	1-131-992-11	CERAMIC CHIP	100000PF		35V
C682	1-131-992-11	CERAMIC CHIP	100000PF		35V
C683	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C691	1-131-992-11	CERAMIC CHIP	100000PF		35V
C692	1-131-992-11	CERAMIC CHIP	100000PF		35V
C693	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN600	1-764-865-41	CONNECTOR, BOARD TO BOARD 13P			
CN601	1-784-031-41	CONNECTOR, BOARD TO BOARD 8P			
* CN602	1-564-512-11	PLUG, CONNECTOR 9P			
* CN607	1-564-508-11	PLUG, CONNECTOR 5P			
		< DIODE >			
D609	6-501-193-01	DIODE 1SS355WTE-17			
D611	8-719-056-93	DIODE UDZ-TE-17-18B			
D612	8-719-056-93	DIODE UDZ-TE-17-18B			
D620	6-501-193-01	DIODE 1SS355WTE-17			
D624	6-501-193-01	DIODE 1SS355WTE-17			
D646	6-501-193-01	DIODE 1SS355WTE-17			
D654	6-501-193-01	DIODE 1SS355WTE-17			
D655	6-501-193-01	DIODE 1SS355WTE-17			
D660	6-501-193-01	DIODE 1SS355WTE-17			
D661	6-501-193-01	DIODE 1SS355WTE-17			
D670	6-501-193-01	DIODE 1SS355WTE-17			
		< IC >			
IC600	6-600-169-01	IC STK412-240M-E (ZX80D)			
IC600	6-600-171-01	IC STK412-230-E (ZX100D)			
		< JUMPER RESISTOR >			
JR600	1-216-296-11	SHORT CHIP	0		
JR601	1-216-296-11	SHORT CHIP	0		
JR602	1-216-296-11	SHORT CHIP	0		
JR603	1-216-296-11	SHORT CHIP	0		
JR612	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L680	1-420-872-52	COIL, AIR-CORE			
L690	1-420-872-52	COIL, AIR-CORE			
		< TRANSISTOR >			
Q604	8-729-924-99	TRANSISTOR	2SC3722K-E		
Q606	8-729-821-00	TRANSISTOR	2SA1207		
Q610	8-729-924-99	TRANSISTOR	2SC3722K-E		
Q618	8-729-924-99	TRANSISTOR	2SC3722K-E		
Q628	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q630	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q634	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
Q640	8-729-023-22	TRANSISTOR	2SD2114K		
Q641	8-729-023-22	TRANSISTOR	2SD2114K		
Q644	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q647	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q648	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q668	8-729-924-99	TRANSISTOR	2SC3722K-E		
Q682	8-729-230-49	TRANSISTOR	2SC2712-YG		
		< RESISTOR >			
R600	1-216-821-11	METAL CHIP	1K	5%	1/10W
R601	1-216-841-11	METAL CHIP	47K	5%	1/10W
R602	1-216-816-11	METAL CHIP	390	5%	1/10W
R603	1-216-841-11	METAL CHIP	47K	5%	1/10W

PA **PANEL**

Ref. No.	Part No.	Description			Remark
R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R605	1-216-833-11	METAL CHIP	10K	5%	1/10W
R606	1-216-841-11	METAL CHIP	47K	5%	1/10W
R607	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R608	1-216-845-11	METAL CHIP	100K	5%	1/10W
R609	1-216-843-11	METAL CHIP	68K	5%	1/10W
R610	1-216-843-11	METAL CHIP	68K	5%	1/10W
R611	1-216-839-11	METAL CHIP	33K	5%	1/10W
⚠R612	1-245-605-51	FUSIBLE	100	5%	1/4W F
⚠R613	1-215-869-11	METAL OXIDE	1K	5%	1W F
⚠R614	1-215-869-11	METAL OXIDE	1K	5%	1W F
⚠R615	1-245-605-51	FUSIBLE	100	5%	1/4W F
⚠R616	1-217-637-00	FUSIBLE	1	5%	1/4W F
R617	1-216-845-11	METAL CHIP	100K	5%	1/10W
⚠R618	1-234-499-21	ENCAPSULATED COMPONENT	0.22		5W F
R619	1-216-821-11	METAL CHIP	1K	5%	1/10W
R620	1-216-836-11	METAL CHIP	18K	5%	1/10W
R621	1-216-847-11	METAL CHIP	150K	5%	1/10W
R622	1-245-711-31	CARBON	10	5%	1/2W
R623	1-216-843-11	METAL CHIP	68K	5%	1/10W
R624	1-216-837-11	METAL CHIP	22K	5%	1/10W
R625	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (ZX80D)
R625	1-216-837-11	METAL CHIP	22K	5%	1/10W (ZX100D)
R628	1-216-837-11	METAL CHIP	22K	5%	1/10W
R629	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R630	1-216-845-11	METAL CHIP	100K	5%	1/10W
R631	1-216-845-11	METAL CHIP	100K	5%	1/10W
R633	1-216-864-11	SHORT CHIP	0		
R634	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R635	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R636	1-216-456-00	METAL OXIDE	820	5%	2W F
⚠R637	1-216-456-00	METAL OXIDE	820	5%	2W F
R638	1-216-845-11	METAL CHIP	100K	5%	1/10W
R639	1-216-845-11	METAL CHIP	100K	5%	1/10W
R640	1-216-821-11	METAL CHIP	1K	5%	1/10W
R641	1-216-821-11	METAL CHIP	1K	5%	1/10W
R642	1-216-811-11	METAL CHIP	150	5%	1/10W
R643	1-216-811-11	METAL CHIP	150	5%	1/10W
R644	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R645	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R646	1-260-086-31	CARBON	82	5%	1/2W F (ZX100D)
⚠R646	1-260-087-11	CARBON	100	5%	1/2W F (ZX80D)
R647	1-216-821-11	METAL CHIP	1K	5%	1/10W
R648	1-216-837-11	METAL CHIP	22K	5%	1/10W
R649	1-216-837-11	METAL CHIP	22K	5%	1/10W
R650	1-216-821-11	METAL CHIP	1K	5%	1/10W
R651	1-216-841-11	METAL CHIP	47K	5%	1/10W
R652	1-216-816-11	METAL CHIP	390	5%	1/10W
R653	1-216-841-11	METAL CHIP	47K	5%	1/10W
R654	1-216-841-11	METAL CHIP	47K	5%	1/10W
R655	1-216-841-11	METAL CHIP	47K	5%	1/10W
R656	1-216-849-11	METAL CHIP	220K	5%	1/10W
R657	1-216-849-11	METAL CHIP	220K	5%	1/10W
R658	1-216-845-11	METAL CHIP	100K	5%	1/10W
R660	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R661	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R662	1-216-811-11	METAL CHIP	150	5%	1/10W
R663	1-216-811-11	METAL CHIP	150	5%	1/10W
⚠R668	1-234-499-21	ENCAPSULATED COMPONENT	0.22		5W F
R669	1-216-821-11	METAL CHIP	1K	5%	1/10W
R670	1-216-836-11	METAL CHIP	18K	5%	1/10W
R671	1-216-847-11	METAL CHIP	150K	5%	1/10W
R672	1-245-711-31	CARBON	10	5%	1/2W
R673	1-216-842-11	METAL CHIP	56K	5%	1/10W
R674	1-216-837-11	METAL CHIP	22K	5%	1/10W
R676	1-216-849-11	METAL CHIP	220K	5%	1/10W
R677	1-216-849-11	METAL CHIP	220K	5%	1/10W
R678	1-216-845-11	METAL CHIP	100K	5%	1/10W
R680	1-245-711-31	CARBON	10	5%	1/2W
R681	1-245-711-31	CARBON	10	5%	1/2W
R682	1-216-821-11	METAL CHIP	1K	5%	1/10W
R683	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R685	1-216-833-11	METAL CHIP	10K	5%	1/10W
R690	1-245-711-31	CARBON	10	5%	1/2W
R691	1-245-711-31	CARBON	10	5%	1/2W
R692	1-216-841-11	METAL CHIP	47K	5%	1/10W
R693	1-216-845-11	METAL CHIP	100K	5%	1/10W
R694	1-216-843-11	METAL CHIP	68K	5%	1/10W
R695	1-216-845-11	METAL CHIP	100K	5%	1/10W
R696	1-216-845-11	METAL CHIP	100K	5%	1/10W
R697	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R698	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< RELAY >			
RY646	1-755-500-11	RELAY			
		< THERMISTOR >			
TH629	1-807-796-11	THERMISTOR			
TH630	1-807-796-11	THERMISTOR			
		< TERMINAL >			
TM600	1-780-001-21	TERMINAL BOARD (SPEAKER) (FRONT SPEAKER)			
**********					
	A-1174-312-A	PANEL BOARD, COMPLETE **********			
		< CAPACITOR >			
C900	1-126-163-11	ELECT	4.7uF	20%	50V
C901	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C902	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C903	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C904	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C905	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C906	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C908	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C909	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C910	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C916	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C917	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C920	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C922	1-119-941-11	ELECT	470uF	20%	6.3V
C923	1-119-941-11	ELECT	470uF	20%	6.3V
C924	1-119-941-11	ELECT	470uF	20%	6.3V
C925	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C926	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C927	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C928	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C929	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C930	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C931	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C932	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C933	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C934	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C935	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C936	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C937	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C938	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C939	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C940	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C941	1-124-261-00	ELECT	10uF	20%	50V
C942	1-124-261-00	ELECT	10uF	20%	50V
C943	1-124-261-00	ELECT	10uF	20%	50V
C945	1-115-156-11	CERAMIC CHIP	1uF		10V
C946	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C947	1-115-156-11	CERAMIC CHIP	1uF		10V
C948	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C949	1-115-156-11	CERAMIC CHIP	1uF		10V
C950	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C951	1-115-156-11	CERAMIC CHIP	1uF		10V
C952	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C953	1-115-156-11	CERAMIC CHIP	1uF		10V
C954	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C955	1-115-156-11	CERAMIC CHIP	1uF		10V
C956	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C957	1-115-156-11	CERAMIC CHIP	1uF		10V
C958	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C959	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C961	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C962	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C964	1-124-589-11	ELECT	47uF	20%	16V
C967	1-124-261-00	ELECT	10uF	20%	50V
C972	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C973	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C974	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C975	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C977	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C978	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C979	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C980	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C981	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C982	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C983	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1180	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
		< CONNECTOR >			
CN900	1-784-739-11	CONNECTOR, FFC 17P			
CN902	1-784-739-11	CONNECTOR, FFC 17P			
		< DIODE >			
D901	6-501-193-01	DIODE 1SS355WTE-17			
D905	8-719-978-33	DIODE DTZ-TT11-6.8B			
D908	8-719-064-63	LED SELU5823C-TP15 (DVD)			
D909	8-719-064-63	LED SELU5823C-TP15 (TUNER/BAND)			
D910	8-719-064-63	LED SELU5823C-TP15 (TAPE A/B)			
D911	8-719-064-63	LED SELU5823C-TP15 (◀▶ (AMBER))			
D913	8-719-064-63	LED SELU5823C-TP15 (PRESET + ▶▶I)			
D914	8-719-064-63	LED SELU5823C-TP15 (PRESET – I◀◀)			
D915	6-501-228-01	LED SELU5420E-STP15 (◀▶ (GRN))			
D916	8-719-064-63	LED SELU5823C-TP15 (TV/SAT)			
D917	8-719-064-63	LED SELU5823C-TP15 (VIDEO)			
D927	6-500-809-01	LED SELU5223C-STP15 (I/⏻ (GRN))			
D928	6-501-228-01	LED SELU5420E-STP15 (I/⏻ (RED))			
D929	8-719-064-63	LED SELU5823C-TP15 (TUNING + ▶▶ I►)			
D930	8-719-064-63	LED SELU5823C-TP15 (TUNING – ◀◀ ◄I)			
D931	6-501-193-01	DIODE 1SS355WTE-17			
D932	6-501-193-01	DIODE 1SS355WTE-17			
D1145	8-719-064-63	LED SELU5823C-TP15 (❚❚)			
D1153	8-719-064-63	LED SELU5823C-TP15 (■)			
		< JUMPER RESISTOR >			
FB901	1-216-864-11	SHORT CHIP	0		
		< FLUORESCENT INDICATOR TUBE >			
FL901	1-519-794-21	VACUUM FLUORESCENT DISPLAYS			
		< IC >			
IC902	6-806-206-01	IC MB90M407PF-G-149E1			
IC903	6-600-309-01	IC RPM7240-H9			
IC904	6-705-678-01	IC NJM2760V-TE2			
		< JUMPER RESISTOR >			
JR904	1-216-864-11	SHORT CHIP	0		
JR914	1-216-864-11	SHORT CHIP	0		
JR925	1-216-296-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q901	8-729-027-56	TRANSISTOR	DTC143TKA-T146		
Q902	8-729-027-56	TRANSISTOR	DTC143TKA-T146		
Q903	8-729-027-29	TRANSISTOR	DTA123JKA-T146		
Q904	8-729-106-60	TRANSISTOR	2SB1115A-YQ		
Q905	8-729-106-60	TRANSISTOR	2SB1115A-YQ		
Q906	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
Q907	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
Q908	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
Q909	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
Q910	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
Q914	8-729-027-56	TRANSISTOR	DTC143TKA-T146		
Q917	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
Q918	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
Q919	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
		< RESISTOR >			
R900	1-216-833-11	METAL CHIP	10K	5%	1/10W

PANEL **PRIMARY**

Ref. No.	Part No.	Description			Remark
R901	1-216-833-11	METAL CHIP	10K	5%	1/10W
R902	1-216-833-11	METAL CHIP	10K	5%	1/10W
R903	1-216-809-11	METAL CHIP	100	5%	1/10W
R904	1-216-809-11	METAL CHIP	100	5%	1/10W
R905	1-216-835-11	METAL CHIP	15K	5%	1/10W
R906	1-216-835-11	METAL CHIP	15K	5%	1/10W
R907	1-216-835-11	METAL CHIP	15K	5%	1/10W
R908	1-216-809-11	METAL CHIP	100	5%	1/10W
R909	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R910	1-216-819-11	METAL CHIP	680	5%	1/10W
R912	1-216-809-11	METAL CHIP	100	5%	1/10W
R914	1-216-819-11	METAL CHIP	680	5%	1/10W
R916	1-216-819-11	METAL CHIP	680	5%	1/10W
R918	1-216-845-11	METAL CHIP	100K	5%	1/10W
R919	1-216-845-11	METAL CHIP	100K	5%	1/10W
R920	1-216-845-11	METAL CHIP	100K	5%	1/10W
R922	1-216-857-11	METAL CHIP	1M	5%	1/10W
R923	1-216-819-11	METAL CHIP	680	5%	1/10W
R941	1-216-809-11	METAL CHIP	100	5%	1/10W
R942	1-216-809-11	METAL CHIP	100	5%	1/10W
R943	1-216-833-11	METAL CHIP	10K	5%	1/10W
R944	1-216-805-11	METAL CHIP	47	5%	1/10W
R947	1-216-821-11	METAL CHIP	1K	5%	1/10W
R948	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R949	1-216-821-11	METAL CHIP	1K	5%	1/10W
R950	1-216-821-11	METAL CHIP	1K	5%	1/10W
R951	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R952	1-216-821-11	METAL CHIP	1K	5%	1/10W
R953	1-216-821-11	METAL CHIP	1K	5%	1/10W
R954	1-216-833-11	METAL CHIP	10K	5%	1/10W
R956	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R957	1-216-819-11	METAL CHIP	680	5%	1/10W
R964	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R965	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R966	1-216-833-11	METAL CHIP	10K	5%	1/10W
R967	1-216-835-11	METAL CHIP	15K	5%	1/10W
R968	1-216-837-11	METAL CHIP	22K	5%	1/10W
R974	1-216-819-11	METAL CHIP	680	5%	1/10W
R979	1-216-805-11	METAL CHIP	47	5%	1/10W
R980	1-216-821-11	METAL CHIP	1K	5%	1/10W
R981	1-216-809-11	METAL CHIP	100	5%	1/10W
R982	1-216-817-11	METAL CHIP	470	5%	1/10W
R983	1-216-842-11	METAL CHIP	56K	5%	1/10W
R984	1-216-839-11	METAL CHIP	33K	5%	1/10W
R987	1-216-819-11	METAL CHIP	680	5%	1/10W
R990	1-216-819-11	METAL CHIP	680	5%	1/10W
R997	1-216-819-11	METAL CHIP	680	5%	1/10W
R1007	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1008	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1009	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1010	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1011	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1012	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1013	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1021	1-216-809-11	METAL CHIP	100	5%	1/10W
R1022	1-216-809-11	METAL CHIP	100	5%	1/10W
R1023	1-216-809-11	METAL CHIP	100	5%	1/10W
R1024	1-216-809-11	METAL CHIP	100	5%	1/10W
R1025	1-216-809-11	METAL CHIP	100	5%	1/10W
R1026	1-216-809-11	METAL CHIP	100	5%	1/10W
R1027	1-216-809-11	METAL CHIP	100	5%	1/10W
R1028	1-216-809-11	METAL CHIP	100	5%	1/10W
R1135	1-216-819-11	METAL CHIP	680	5%	1/10W
R1136	1-216-819-11	METAL CHIP	680	5%	1/10W
R1141	1-216-819-11	METAL CHIP	680	5%	1/10W
R1178	1-216-801-11	METAL CHIP	22	5%	1/10W
R1180	1-216-808-11	METAL CHIP	82	5%	1/10W
R1181	1-216-814-11	METAL CHIP	270	5%	1/10W
R1187	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1189	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
		< SWITCH >			
S907	1-762-875-21	SWITCH, KEYBOARD (◀▶)			
S908	1-762-875-21	SWITCH, KEYBOARD (❚❚)			
S909	1-762-875-21	SWITCH, KEYBOARD (■)			
S910	1-762-875-21	SWITCH, KEYBOARD (PRESET + ▶▶❙)			
S911	1-762-875-21	SWITCH, KEYBOARD (PRESET – ❙◀◀)			
S912	1-762-875-21	SWITCH, KEYBOARD (TUNING + ▶▶ ❙►)			
S913	1-762-875-21	SWITCH, KEYBOARD (TUNING – ◀◀ ◄❙)			
S921	1-762-875-21	SWITCH, KEYBOARD (VIDEO)			
S922	1-762-875-21	SWITCH, KEYBOARD (TV/SAT)			
S923	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)			
S924	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
S925	1-762-875-21	SWITCH, KEYBOARD (DVD)			
S927	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
		< VIBRATOR >			
X901	1-781-282-51	VIBRATOR, CERAMIC (4MHz)			
**********					
		PRIMARY BOARD			
		**********			
		< CAPACITOR >			
⚠C1200	1-113-924-11	CERAMIC	0.0047uF	20%	25V
C1201	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1202	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1204	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1206	1-126-916-11	ELECT	1000uF	20%	6.3V
		< CONNECTOR >			
CN1200	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			
CN1202	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN1204	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P (ZX80D: MX/ZX100D: MX)			
CN1204	1-568-106-11	PIN, CONNECTOR (3.96mm PITCH) 4P (ZX80D: E2, E3, E13, E51/ZX100D: E2, E3, E51, SP, MY)			
		< DIODE >			
D1200	6-501-193-01	DIODE 1SS355WTE-17			
		< JUMPER RESISTOR >			
JR1202	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
		< COIL >			
L1201	1-410-666-31	INDUCTOR	18uH		
		< TRANSISTOR >			
Q1200	8-729-230-49	TRANSISTOR	2SC2712-YG		
		< RESISTOR >			
R1200	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1201	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< RELAY >			
⚠RY1200	1-755-299-11	RELAY			
		< SWITCH >			
⚠S1200	1-771-291-31	SWITCH, POWER (VOLTAGE SELECTOR) (ZX80D: E2, E3, E13, E51/ ZX100D: E2, E3, E51, SP, MY)			
**********					
	1-687-132-12	SENSOR BOARD			
		**********			
		< CONNECTOR >			
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P			
		< IC >			
IC731	6-600-022-01	IC RPI-576			
**********					
	A-1174-185-A	SURROUND BOARD, COMPLETE (ZX80D: MX)			
	A-1174-262-A	SURROUND BOARD, COMPLETE (ZX100D: MX)			
	A-1174-323-A	SURROUND BOARD, COMPLETE (ZX80D: E2, E3, E13, E51)			
	A-1174-333-A	SURROUND BOARD, COMPLETE (ZX100D: E2, E3, E51, SP, MY)			
		**********			
		< CAPACITOR >			
C700	1-126-963-11	ELECT	4.7uF	20%	50V
C701	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C702	1-126-934-11	ELECT	220uF	20%	16V
C703	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C704	1-126-963-11	ELECT	4.7uF	20%	50V
C710	1-162-916-11	CERAMIC CHIP	12PF	5%	50V (ZX100D)
C711	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C712	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C721	1-126-965-11	ELECT	22uF	20%	50V
C730	1-136-495-11	FILM	0.068uF	5%	50V
C731	1-136-495-11	FILM	0.068uF	5%	50V
C732	1-131-992-11	CERAMIC CHIP	100000PF		35V
C733	1-131-992-11	CERAMIC CHIP	100000PF		35V
C740	1-126-963-11	ELECT	4.7uF	20%	50V (ZX100D)
C741	1-164-230-11	CERAMIC CHIP	220PF	5%	50V (ZX100D)
C742	1-126-934-11	ELECT	220uF	20%	16V (ZX100D)
C743	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (ZX100D)
C744	1-126-963-11	ELECT	4.7uF	20%	50V (ZX100D)
C750	1-126-963-11	ELECT	4.7uF	20%	50V
C751	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C752	1-126-934-11	ELECT	220uF	20%	16V
C753	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C754	1-126-963-11	ELECT	4.7uF	20%	50V
C770	1-136-495-11	FILM	0.068uF	5%	50V (ZX100D)
C771	1-136-495-11	FILM	0.068uF	5%	50V (ZX100D)
C772	1-131-992-11	CERAMIC CHIP	100000PF		35V (ZX100D)
C773	1-131-992-11	CERAMIC CHIP	100000PF		35V (ZX100D)
C780	1-136-495-11	FILM	0.068uF	5%	50V
C781	1-136-495-11	FILM	0.068uF	5%	50V
C782	1-131-992-11	CERAMIC CHIP	100000PF		35V
C783	1-131-992-11	CERAMIC CHIP	100000PF		35V
C791	1-162-974-11	CERAMIC CHIP	0.01uF		50V (ZX100D)
C792	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C793	1-128-563-11	ELECT	100uF	20%	100V
C794	1-128-563-11	ELECT	100uF	20%	100V
C795	1-128-560-11	ELECT	22uF	20%	100V
C796	1-128-560-11	ELECT	22uF	20%	100V
C800	1-126-963-11	ELECT	4.7uF	20%	50V
C801	1-100-717-11	CERAMIC CHIP	1uF		16V (ZX100D)
C802	1-104-665-11	ELECT	100uF	20%	25V
C803	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C804	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C805	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C806	1-126-961-11	ELECT	2.2uF	20%	50V
C807	1-100-717-11	CERAMIC CHIP	1uF		16V (ZX100D)
C808	1-131-749-11	CERAMIC CHIP	8.2PF		50V
C820	1-126-964-11	ELECT	10uF	20%	50V
C825	1-126-968-11	ELECT	100uF	20%	50V
C826	1-126-968-11	ELECT	100uF	20%	50V
C838	1-136-495-11	FILM	0.068uF	5%	50V
C839	1-136-495-11	FILM	0.068uF	5%	50V
C843	1-126-963-11	ELECT	4.7uF	20%	50V
C850	1-126-963-11	ELECT	4.7uF	20%	50V
C851	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C852	1-104-665-11	ELECT	100uF	20%	25V
C853	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C858	1-131-749-11	CERAMIC CHIP	8.2PF		50V
C888	1-136-495-11	FILM	0.068uF	5%	50V
C889	1-136-495-11	FILM	0.068uF	5%	50V
		< CONNECTOR >			
CN700	1-764-865-41	CONNECTOR, BOARD TO BOARD 13P			
CN701	1-784-031-41	CONNECTOR, BOARD TO BOARD 8P			
		< DIODE >			
D710	8-719-083-66	DIODE UDZSTE-1718B			

SURROUND

Ref. No.	Part No.	Description			Remark
D711	8-719-083-66	DIODE UDZSTE-1718B			
D720	6-501-193-01	DIODE 1SS355WTE-17			
D730	6-501-193-01	DIODE 1SS355WTE-17			
D761	6-501-193-01	DIODE 1SS355WTE-17 (ZX100D)			
D762	6-501-193-01	DIODE 1SS355WTE-17			
D763	6-501-193-01	DIODE 1SS355WTE-17			
D764	6-501-193-01	DIODE 1SS355WTE-17			
D765	6-501-193-01	DIODE 1SS355WTE-17 (ZX100D)			
D770	6-501-193-01	DIODE 1SS355WTE-17 (ZX100D)			
D780	6-501-193-01	DIODE 1SS355WTE-17			
D800	6-501-193-01	DIODE 1SS355WTE-17			
D810	6-501-193-01	DIODE 1SS355WTE-17			
D811	6-501-193-01	DIODE 1SS355WTE-17			
D812	6-501-193-01	DIODE 1SS355WTE-17			
D850	6-501-193-01	DIODE 1SS355WTE-17			
		< IC >			
IC702	6-600-169-01	IC STK412-240M-E (ZX80D)			
IC702	6-600-339-01	IC STK413-430 (ZX100D)			
IC800	6-600-089-01	IC STK403-070 (ZX80D)			
IC800	6-704-107-01	IC STK403-100-E (ZX100D)			
		< JUMPER RESISTOR >			
JR700	1-216-296-11	SHORT CHIP	0		
JR791	1-216-864-11	SHORT CHIP	0 (ZX100D)		
JR792	1-216-296-11	SHORT CHIP	0 (ZX100D)		
JR797	1-216-296-11	SHORT CHIP	0		
		< COIL >			
L730	1-420-872-52	COIL, AIR-CORE			
L770	1-420-872-52	COIL, AIR-CORE (ZX100D)			
L780	1-420-872-52	COIL, AIR-CORE			
		< TRANSISTOR >			
Q700	8-729-023-22	TRANSISTOR	2SD2114K		
Q720	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q721	8-729-821-00	TRANSISTOR	2SA1207		
Q722	8-729-924-99	TRANSISTOR	2SC3722K-E		
Q730	8-729-924-99	TRANSISTOR	2SC3722K-E		
Q740	8-729-023-22	TRANSISTOR	2SD2114K (ZX100D)		
Q750	8-729-023-22	TRANSISTOR	2SD2114K		
Q762	8-729-230-49	TRANSISTOR	2SC2712-YG (ZX100D)		
Q763	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q765	8-729-023-22	TRANSISTOR	2SD2114K		
Q770	8-729-924-99	TRANSISTOR	2SC3722K-E (ZX100D)		
Q780	8-729-924-99	TRANSISTOR	2SC3722K-E		
Q800	8-729-924-99	TRANSISTOR	2SC3722K-E		
Q810	8-729-023-22	TRANSISTOR	2SD2114K		
Q812	8-729-924-99	TRANSISTOR	2SC3722K-E		
Q814	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q815	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q850	8-729-924-99	TRANSISTOR	2SC3722K-E		
		< RESISTOR >			
R700	1-216-821-11	METAL CHIP	1K	5%	1/10W
R701	1-216-841-11	METAL CHIP	47K	5%	1/10W
R702	1-216-816-11	METAL CHIP	390	5%	1/10W (ZX100D)

Ref. No.	Part No.	Description			Remark
R702	1-218-482-11	METAL CHIP	430	5%	1/10W (ZX80D)
R703	1-216-821-11	METAL CHIP	1K	5%	1/10W
R704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R705	1-216-841-11	METAL CHIP	47K	5%	1/10W
R706	1-216-833-11	METAL CHIP	10K	5%	1/10W
R710	1-216-841-11	METAL CHIP	47K	5%	1/10W (ZX100D)
R711	1-216-841-11	METAL CHIP	47K	5%	1/10W
R712	1-216-841-11	METAL CHIP	47K	5%	1/10W
R720	1-216-833-11	METAL CHIP	10K	5%	1/10W
R721	1-216-833-11	METAL CHIP	10K	5%	1/10W
R722	1-216-837-11	METAL CHIP	22K	5%	1/10W
R723	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R724	1-216-839-11	METAL CHIP	33K	5%	1/10W
R725	1-216-841-11	METAL CHIP	47K	5%	1/10W
R726	1-216-839-11	METAL CHIP	33K	5%	1/10W
R727	1-216-839-11	METAL CHIP	33K	5%	1/10W
⚠R730	1-234-499-21	ENCAPSULATED COMPONENT	0.22		5W F
R731	1-216-821-11	METAL CHIP	1K	5%	1/10W
R732	1-216-838-11	METAL CHIP	27K	5%	1/10W
R733	1-216-845-11	METAL CHIP	100K	5%	1/10W
R734	1-216-842-11	METAL CHIP	56K	5%	1/10W
R735	1-245-711-31	CARBON	10	5%	1/2W
R736	1-245-711-31	CARBON	10	5%	1/2W
R737	1-245-711-31	CARBON	10	5%	1/2W
R740	1-216-821-11	METAL CHIP	1K	5%	1/10W (ZX100D)
R741	1-216-841-11	METAL CHIP	47K	5%	1/10W (ZX100D)
R742	1-218-484-11	METAL CHIP	750	5%	1/10W (ZX100D)
R743	1-216-821-11	METAL CHIP	1K	5%	1/10W (ZX100D)
R744	1-216-833-11	METAL CHIP	10K	5%	1/10W (ZX100D)
R745	1-216-841-11	METAL CHIP	47K	5%	1/10W (ZX100D)
R746	1-216-833-11	METAL CHIP	10K	5%	1/10W (ZX100D)
R750	1-216-821-11	METAL CHIP	1K	5%	1/10W
R751	1-216-841-11	METAL CHIP	47K	5%	1/10W
R752	1-216-816-11	METAL CHIP	390	5%	1/10W (ZX100D)
R752	1-218-482-11	METAL CHIP	430	5%	1/10W (ZX80D)
R753	1-216-821-11	METAL CHIP	1K	5%	1/10W
R754	1-216-833-11	METAL CHIP	10K	5%	1/10W
R755	1-216-841-11	METAL CHIP	47K	5%	1/10W
R756	1-216-833-11	METAL CHIP	10K	5%	1/10W
R761	1-216-845-11	METAL CHIP	100K	5%	1/10W
R762	1-216-845-11	METAL CHIP	100K	5%	1/10W
⚠R764	1-260-086-31	CARBON	82	5%	1/2W F (ZX80D: MX/ZX100D:MX)
⚠R764	1-260-087-11	CARBON	100	5%	1/2W (ZX80D: E2, E3, E13, E51/ ZX100D: E2, E3, E51, SP, MY)
⚠R765	1-260-086-31	CARBON	82	5%	1/2W F (ZX100D: MX)

Ref. No.	Part No.	Description			Remark
⚠R765	1-260-087-11	CARBON	100	5%	1/2W
		(ZX100D: E2, E3, E51, SP, MY)			
R766	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
					(ZX100D)
R767	1-216-837-11	METAL CHIP	22K	5%	1/10W
					(ZX100D)
R768	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R769	1-216-837-11	METAL CHIP	22K	5%	1/10W
⚠R770	1-234-499-21	ENCAPSULATED COMPONENT	0.22		5W F
					(ZX100D)
R771	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(ZX100D)
R772	1-216-838-11	METAL CHIP	27K	5%	1/10W
					(ZX100D)
R773	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(ZX100D)
R774	1-216-843-11	METAL CHIP	68K	5%	1/10W
					(ZX100D)
R775	1-245-711-31	CARBON	10	5%	1/2W
					(ZX100D)
R776	1-245-711-31	CARBON	10	5%	1/2W
					(ZX100D)
R777	1-245-711-31	CARBON	10	5%	1/2W
					(ZX100D)
R778	1-216-841-11	METAL CHIP	47K	5%	1/10W
R779	1-216-841-11	METAL CHIP	47K	5%	1/10W
⚠R780	1-234-499-21	ENCAPSULATED COMPONENT	0.22		5W F
R781	1-216-821-11	METAL CHIP	1K	5%	1/10W
R782	1-216-838-11	METAL CHIP	27K	5%	1/10W
R783	1-216-845-11	METAL CHIP	100K	5%	1/10W
R784	1-216-841-11	METAL CHIP	47K	5%	1/10W
R785	1-245-711-31	CARBON	10	5%	1/2W
R786	1-245-711-31	CARBON	10	5%	1/2W
R787	1-245-711-31	CARBON	10	5%	1/2W
R788	1-216-841-11	METAL CHIP	47K	5%	1/10W
					(ZX100D)
R792	1-216-845-11	METAL CHIP	100K	5%	1/10W
⚠R793	1-217-637-00	FUSIBLE	1	5%	1/4W F
⚠R794	1-245-605-51	FUSIBLE	100	5%	1/4W F
⚠R795	1-245-605-51	FUSIBLE	100	5%	1/4W F
⚠R796	1-215-872-11	METAL OXIDE	3.3K	5%	1W F
R797	1-216-837-11	METAL CHIP	22K	5%	1/10W
R798	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠R799	1-215-872-11	METAL OXIDE	3.3K	5%	1W F
R800	1-216-821-11	METAL CHIP	1K	5%	1/10W
R801	1-216-841-11	METAL CHIP	47K	5%	1/10W
R802	1-216-814-11	METAL CHIP	270	5%	1/10W
					(ZX100D)
R802	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(ZX800D)
R803	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
⚠R804	1-217-637-00	FUSIBLE	1	5%	1/4W F
⚠R805	1-217-637-00	FUSIBLE	1	5%	1/4W F
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W
R807	1-216-841-11	METAL CHIP	47K	5%	1/10W
R808	1-216-841-11	METAL CHIP	47K	5%	1/10W
R812	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R814	1-216-833-11	METAL CHIP	10K	5%	1/10W
R817	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R827	1-245-605-51	FUSIBLE	100	5%	1/4W F
⚠R828	1-245-605-51	FUSIBLE	100	5%	1/4W F
⚠R838	1-220-893-11	METAL	0.22	10%	5W F
R839	1-216-821-11	METAL CHIP	1K	5%	1/10W
R840	1-216-837-11	METAL CHIP	22K	5%	1/10W
R841	1-216-845-11	METAL CHIP	100K	5%	1/10W
R842	1-245-711-31	CARBON	10	5%	1/2W
R843	1-216-841-11	METAL CHIP	47K	5%	1/10W
R850	1-216-821-11	METAL CHIP	1K	5%	1/10W
R851	1-216-841-11	METAL CHIP	47K	5%	1/10W
R852	1-216-814-11	METAL CHIP	270	5%	1/10W
R858	1-216-841-11	METAL CHIP	47K	5%	1/10W
R860	1-216-842-11	METAL CHIP	56K	5%	1/10W
R861	1-216-841-11	METAL CHIP	47K	5%	1/10W
⚠R862	1-260-086-31	CARBON	82	5%	1/2W F
			(ZX80D: MX/ZX100D: MX)		
⚠R862	1-260-087-11	CARBON	100	5%	1/2W
			(ZX80D: E2, E3, E13, E51/		
			ZX100D: E2, E3, E51, SP, MY)		
R863	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R864	1-216-837-11	METAL CHIP	22K	5%	1/10W
R865	1-216-821-11	METAL CHIP	1K	5%	1/10W
R866	1-216-837-11	METAL CHIP	22K	5%	1/10W
⚠R888	1-220-893-11	METAL	0.22	10%	5W F
R889	1-216-821-11	METAL CHIP	1K	5%	1/10W
R890	1-216-837-11	METAL CHIP	22K	5%	1/10W
R891	1-216-845-11	METAL CHIP	100K	5%	1/10W
R892	1-245-711-31	CARBON	10	5%	1/2W
		< RELAY >			
RY760	1-755-500-11	RELAY			
RY761	1-755-170-11	RELAY (12V) (ZX100D)			
RY862	1-755-500-11	RELAY			
		< TERMINAL >			
TM700	1-780-001-21	TERMINAL BOARD (SPEAKER)			
					(CENTER SPEAKER)
TM701	1-780-170-21	TERMINAL BOARD (SPEAKER)			
					(SURR SPEAKER)
**********					
	1-687-669-12	SW BOARD			
		*********			
		< SWITCH >			
S751	1-786-514-31	SWITCH, LEVER (SLIDE)			
		(DISC TABLE OPEN/CLOSE DETECT)			
**********					
	A-1174-058-A	TRANS BOARD, COMPLETE			
		(ZX100D: E2, E3, E51, SP, MY)			
	A-1174-204-A	TRANS BOARD, COMPLETE (ZX80D: MX)			
	A-1174-927-A	TRANS BOARD, COMPLETE			
		(ZX80D: E2, E3, E13, E51)			
	A-1174-928-A	TRANS BOARD, COMPLETE (ZX100D: MX)			
		**********			
		< CAPACITOR >			
C1262	1-126-964-11	ELECT	10uF	20%	50V
C1263	1-126-968-11	ELECT	100uF	20%	50V
C1292	1-128-576-11	ELECT	100uF	20%	63V

TRANS **VIDEO**

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
* CN1212	1-564-522-11	PLUG, CONNECTOR 7P			
* CN1213	1-564-523-11	PLUG, CONNECTOR 8P			
CN1215	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			(ZX100D)
		< DIODE >			
* D1264	8-719-071-83	DIODE HZU36BTRF			
D1292	6-500-522-21	DIODE 10EDB40-TB3			
		< FUSE HOLDER >			
FH1241	1-533-217-41	HOLDER, FUSE			
FH1242	1-533-217-41	HOLDER, FUSE			
FH1251	1-533-217-41	HOLDER, FUSE			
FH1252	1-533-217-41	HOLDER, FUSE			
FH1261	1-533-217-41	HOLDER, FUSE			
FH1262	1-533-217-41	HOLDER, FUSE			
FH1271	1-533-217-41	HOLDER, FUSE			
FH1272	1-533-217-41	HOLDER, FUSE			
FH1281	1-533-217-41	HOLDER, FUSE			
FH1282	1-533-217-41	HOLDER, FUSE			
FH1291	1-533-217-41	HOLDER, FUSE			
FH1292	1-533-217-41	HOLDER, FUSE			
		< TRANSISTOR >			
Q1264	8-729-024-93	TRANSISTOR	2SB1565E		
		< RESISTOR >			
R1262	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1263	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1264	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠R1292	1-219-124-11	FUSIBLE	0.68	5%	1/4W F
**********					
	A-1174-061-A	VIDEO BOARD, COMPLETE (ZX80D: E2, E3, E13, E51/ZX100D: E2, E3, E51, SP, MY)			
	A-1174-224-A	VIDEO BOARD, COMPLETE (ZX80D: MX/ZX100D: MX)			
		**********			
		< CAPACITOR >			
C800	1-126-960-11	ELECT	1uF	20%	50V
C801	1-126-960-11	ELECT	1uF	20%	50V
C802	1-126-960-11	ELECT	1uF	20%	50V
C803	1-126-965-11	ELECT	22uF	20%	50V
C804	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C805	1-126-960-11	ELECT	1uF	20%	50V
C806	1-126-960-11	ELECT	1uF	20%	50V
C807	1-126-960-11	ELECT	1uF	20%	50V
C808	1-104-665-11	ELECT	100uF	20%	25V
C809	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C810	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C811	1-126-916-11	ELECT	1000uF	20%	6.3V
C812	1-126-916-11	ELECT	1000uF	20%	6.3V
C813	1-126-916-11	ELECT	1000uF	20%	6.3V
C814	1-126-916-11	ELECT	1000uF	20%	6.3V
C815	1-126-916-11	ELECT	1000uF	20%	6.3V

Ref. No.	Part No.	Description			Remark
C816	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C817	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C818	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C819	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C820	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C821	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C822	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C823	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C824	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C825	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C826	1-126-964-11	ELECT	10uF	20%	50V
C827	1-126-964-11	ELECT	10uF	20%	50V
C829	1-126-916-11	ELECT	1000uF	20%	6.3V
C830	1-104-665-11	ELECT	100uF	20%	25V
C831	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN800	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CN801	1-779-281-11	FFC CONNECTOR (LIF (NON-ZIF)) 13P			
CN802	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P			
		< JUMPER RESISTOR >			
FB800	1-216-864-11	SHORT CHIP	0		
FB801	1-216-864-11	SHORT CHIP	0		
FB802	1-216-864-11	SHORT CHIP	0		
FB803	1-216-864-11	SHORT CHIP	0		
FB804	1-216-864-11	SHORT CHIP	0		
FB805	1-216-864-11	SHORT CHIP	0		
FB806	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC800	8-759-295-90	IC NJM2244M-TE2			
IC801	6-705-602-01	IC MM1623BFBE			
		< JACK/TERMINAL >			
J800	1-817-449-11	JACK, PIN 3P (COMPONET VIDEO OUT)			
J801	1-537-943-11	TERMINAL, S (S VIDEO OUT)			
J802	1-794-970-11	JACK, PIN 1P (VIDEO OUT)			
		< CAPACITOR/JUMPER RESISTOR >			
JR800	1-216-864-11	SHORT CHIP	0		
JR802	1-216-864-11	SHORT CHIP	0		
JR803	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
JR804	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L801	1-414-183-41	INDUCTOR	10uH		
		< RESISTOR >			
R800	1-216-809-11	METAL CHIP	100	5%	1/10W
R802	1-218-285-11	METAL CHIP	75	5%	1/10W
R803	1-218-285-11	METAL CHIP	75	5%	1/10W
R804	1-218-285-11	METAL CHIP	75	5%	1/10W
R805	1-218-285-11	METAL CHIP	75	5%	1/10W
R806	1-216-864-11	SHORT CHIP	0		
R807	1-216-809-11	METAL CHIP	100	5%	1/10W
R808	1-218-285-11	METAL CHIP	75	5%	1/10W

Ref. No.	Part No.	Description			Remark
R809	1-216-833-11	METAL CHIP	10K	5%	1/10W
R810	1-216-807-11	METAL CHIP	68	5%	1/10W
R812	1-216-857-11	METAL CHIP	1M	5%	1/10W
R813	1-216-845-11	METAL CHIP	100K	5%	1/10W
R814	1-216-833-11	METAL CHIP	10K	5%	1/10W
**********					
		X-ROUND BOARD			
		**********			
		< CAPACITOR >			
C1040	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
* CN1153	1-568-850-11	SOCKET, CONNECTOR 7P			
		< LED >			
D1040	8-719-064-63	LED SELU5823C-TP15 (FADER)			
D1042	8-719-064-63	LED SELU5823C-TP15 (RANDOM)			
D1044	8-719-064-63	LED SELU5823C-TP15 (FADER)			
D1046	8-719-064-63	LED SELU5823C-TP15 (BEAT MAX)			
D1048	8-719-064-63	LED SELU5823C-TP15 (BEAT JUMP)			
D1050	8-719-064-63	LED SELU5823C-TP15 (BEAT JUMP)			
D1052	8-719-064-63	LED SELU5823C-TP15 (BALANCE)			
D1054	8-719-064-63	LED SELU5823C-TP15 (BALANCE)			
D1056	8-719-064-63	LED SELU5823C-TP15 (BEAT MAX)			
D1058	8-719-064-63	LED SELU5823C-TP15 (RANDOM)			
		< JUMPER RESISTOR >			
JR915	1-216-864-11	SHORT CHIP	0		
JR1041	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q1041	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
		< RESISTOR >			
R1041	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1042	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1043	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1044	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1045	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1046	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1047	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1048	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1050	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1051	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1052	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1053	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1054	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1055	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1056	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1057	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1058	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1059	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1060	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1061	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1062	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1063	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1064	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1065	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1066	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1067	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< SWITCH/ROTARY ENCODER >			
S1040	1-479-203-11	ENCODER (ROTARY) (X-ROUND JOG)			
S1041	1-762-875-21	SWITCH, KEYBOARD (BEAT PAD)			
S1042	1-762-875-21	SWITCH, KEYBOARD (BEAT MAX)			
S1043	1-762-875-21	SWITCH, KEYBOARD (BEAT JUMP)			
S1044	1-762-875-21	SWITCH, KEYBOARD (RANDOM)			
S1045	1-762-875-21	SWITCH, KEYBOARD (WAVE)			
S1046	1-762-875-21	SWITCH, KEYBOARD (FADER)			
S1047	1-762-875-21	SWITCH, KEYBOARD (BALANCE)			
S1049	1-786-967-11	SWITCH, TACTILE (SPEAKERS/X-ROUND OFF)			
**********					
		MISCELLANEOUS			
		**********			
55	1-828-991-11	WIRE (FLAT TYPE) (17 CORE)			
57	1-828-942-11	WIRE (FLAT TYPE) (7 CORE)			
58	1-828-992-11	WIRE (FLAT TYPE) (17 CORE)			
113	1-417-658-11	MECHA DECK (CWN42RR603)			
115	1-828-964-11	WIRE (FLAT TYPE) (11 CORE)			
⚠151	1-468-737-51	POWER SWITCHING			
152	1-693-702-11	TUNER (FM/AM) (TM10SE)			
154	1-828-358-11	WIRE (FLAT TYPE) (19 CORE)			
156	1-828-973-11	WIRE (FLAT TYPE) (13 CORE)			
157	1-828-956-11	WIRE (FLAT TYPE) (9 CORE)			
203	1-828-326-11	WIRE (FLAT TYPE) (13 CORE)			
205	1-828-332-11	WIRE (FLAT TYPE) (13 CORE)			
206	1-828-632-11	WIRE (FLAT TYPE) (21 CORE)			
207	1-828-252-11	WIRE (FLAT TYPE) (24 CORE)			
⚠258	1-777-071-53	CORD, POWER (ZX80D: E2, E3, E13, E51/ ZX100D: E2, E3, E51, SP, MY)			
⚠258	1-829-627-31	POWER-SUPPLY CORD (ZX80D: MX/ZX100D: MX)			
502	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)			
⚠571	8-820-291-02	OPTICAL PICK-UP BLOCK (KHM-310CAB/ C2RP) (Including sled motor, spindle motor)			
⚠571	8-820-322-04	OPTICAL PICK-UP BLOCK (KHM-313CAB/ C2RP) (Including sled motor, spindle motor)			
D656	8-719-073-32	DIODE D25XB60			
D658	8-719-066-42	DIODE RBV1306 (ZX80D)			
D658	8-719-073-32	DIODE D25XB60 (ZX100D)			
⚠F1241	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)			
⚠F1251	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)			
⚠F1261	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)			
⚠F1271	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)			
⚠F1281	1-532-465-33	FUSE (3.15A/250V)			
⚠F1291	1-532-465-33	FUSE (3.15A/250V)			
M501	1-763-372-11	FAN, DC			
M502	1-763-372-11	FAN, DC			
M741	A-1108-965-A	MOTOR ASSY, TABLE			
M751	A-4737-553-A	MOTOR ASSY, LOADING			
S711	1-477-680-12	ENCODER, ROTARY (DISC TABLE ADDRESS DETECT)			

Note: Refer to the Servicing Notes "HOW TO IDENTIFY OPTICAL PICK-UP BLOCK" (pagr 4), if replacing the Ref. No.571.

Ref. No.	Part No.	Description	Remark
⚠T1200	1-443-977-11	POWER TRANSFORMER	(ZX100D: E2, E3, E51, SP, MY)
⚠T1200	1-443-978-11	POWER TRANSFORMER (ZX100D: MX)	
⚠T1200	1-445-024-11	POWER TRANSFORMER	(ZX80D: E2, E3, E13, E51)
⚠T1200	1-445-025-11	POWER TRANSFORMER (ZX80D: MX)	
**********			
		ACCESSORIES **********	
⚠	1-569-008-21	ADAPTOR, CONVERSION 2P	(ZX80D: E2, E3, E51/ ZX100D: E2, E3, E51, SP, MY)

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2006.05	New